

# Innovatint

# LAB

# User Manual

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# **Table of Contents**

1	INTRO	DUCTION	
	1.1 MA	IN FUNCTIONALITY	5
		VIGATION IN PROGRAM	
		ARTING INNOVATINT	
		TABASE OVERVIEW	
2	CONFI	GURATION	
		LORANTS	
		N SIZES	
		STRACT BASES	
		ITS	
		DDUCTS	
		LOR MANAGEMENT	
	2.6.1	Color cards in system	
	2.6.2	Color cards	
	2.6.3	Measure	
	2.6.4	Colors	
3	MATC	HING & CHARACTERIZATION	
	3.1 Сн	ARATERIZATION SET	63
	3.1.1	Set components	
	3.1.2	Proposer	
	3.1.3	Colorants	
	3.1.4	Bases	
	3.1.5	All	
	3.1.6	Base character set	
	3.1.7	Test	
		TCHING RULES	
	3.2.1	System specific	
	3.2.2	Product specific	
	3.3 Co	LOR MATCHING	
	3.3.1	Matching settings	
	3.3.2	Statistics	
	3.3.3	Results	129
	3.3.4	Color correction	
	3.3.5	Dispense queue	
	3.4 Fil	L RGB(S)	
4	MANA	GEMENT & ANALYSIS	
	4.1 ZO	NES	159
	411	Products in zone	
	4.1.2	Products in group	
	4.1.3	Color cards in zone	
	4.2 For	RMULA MANAGEMENT	
	4.2.1	Batch operations	
	4.2.2	F-link inbox	
	4.3 PR	CING	193
	4.4 OT	HER	
	4.5 Ex	PORT AND IMPORT	
	4.5.1	Export from the current database into the Innovatint database	
	4.5.2	Export from the current database into the fix-file	
	4.5.3	Export from the current database into the free text	
	4.5.4	Export from the current database into the database installation package	
	4.5.5	Export from the current database into the shop database installation package	
	4.5.6	Synchronize from the current database into the minimal Gdata	
	4.5.7	Export from the Innovatint database into the current database	
	4.5.8	Export from the Colour Composer 9 database into the current database	
	4.5.9	Export from the Gdata into the current database	
	4.5.10 4.5.11	Export from the Gdata into the free text Export from fix-file into the current database	
	4.3.11	Ελροπ μιστημετικό της εμπεικά αυτάσαξε	

4.3	.5.12 Export from free text into the current database	
4.3	.5.13 Export from Colour Composer list into the current database	
4.6	STATISTICS	
4.7	SITE INVENTORY	
5 0	DPTIONS	
5.1	DISPENSERS	
5.2	Printers	
5.3	SPECTROS	
5.4	ACTIVATION	
6 SE	ERVICES & REPLICATION	
6.1	NETWORK SERVER SETUP	
6.2	USER MANAGEMENT	
6.3	BACKUP	
6.4	Replication	
7 Al	PPENDIX 1: EASYPRINT MANUAL	

# General

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(Reference software version 1.4)

v.2013.02.12

# **1** Introduction

# 1.1 Main functionality

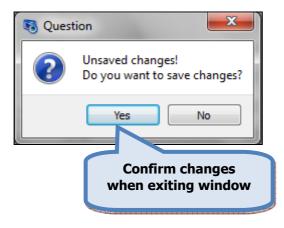
The main functions of Innovatint Lab software are:

- > To manage tinting formula database and color card information
- > To transmit the dispensing instructions to the driver program of the dispensing machine
- > To backup and restore the formula database
- To communicate with a spectrophotometer, and to look up and calculate new color formulae based on the measured values
- > To calculate the price of the dispensed product
- > To collect statistics of the tinted products
- > To manage Shop database and replication process
- > To create tinting systems and manage components of them

# 1.2 Navigation in program

Throughout the whole manual, you can use navigation menu, on left side of the screen to navigate between different pages in software. When making any change, software will ask you to confirm changes when leaving one window, unless you have already clicked **Save** button on the screen. At any time, you can undo any change you have done to the page, by clicking **Reset** button. Please do notice that both **Save** and **Reset** buttons are inactivated unless you have done any changes. Use X button on top-right corner on the window to exit program.

s6main, s6local - InnovaTint - LAB (Workg System Selection Monicolor 2401	Navigatio		ystem ove	rview	
System overview		System name: Mo	nicolor 2401	Edit System	Exit
Configuration	Colorants (16)	Products (4) 🛛 🔘 Cole	or Cards (3)		
Matching & Characterization	Code FT	Ves	Characterized	Used in form	nulas
Management & Analysis	KS	Yes			
Options	LS	Yes		Reset & Sa	ve
	LT	Yes			and the second s
	MM	Yes		36	
📥 Add row 🔄 Delete row				Reset	Save



Some of the pages contains **Back** and **Next** buttons. With these buttons you can either go back to the previous page or to proceed to the next page on the process.



# 1.3 Starting innovatint

Innovatint LAB can be opened by using the desktop short cut, or from the start menu.

#### 

When starting the program, the Login -window opens up, and you have the following options available:

🤏 Inr	novaTint LAB - Log	in	
	CPS	any color you	PR <sup>™</sup> see
L	anguage:	English 2	-
. N	1ain database:	s6main	3 -
L	ocal database:	s6local	State State State
L	Jsername:	4	
F	assword:		5
6	Different usernam	ne and password for loca	l database
	Ver Mode		8

**1.Languange:** The button to select Language for user interface from the drop-down list.

**2.Main database:** The button to select the Main database from the drop-down list.

**3.Local database:** The button to select the Local database from the drop-down list.

**4.Username:** The text field to type in the Username.

**5.Password:** The text field to type in the Password.

**6.Different username and password for local database**: Check box to enable the use of different username and password for local database.

**7.Recover mode**: The button to recover previously used database.

8.Login: The button to login.

The default configuration has 4 user names:

ITR	= Data reader privileges	default password = <b>ITR</b>
ITU	= Data user privileges	default password = ITU
ITA	= Data administrator privileges	default password = ITA
dba	= Database administrator privileges	default password = <b>sql</b>

It is highly recommended to change dba username. See further instructions in section 6.2.

When check box **Different username and password in local database** is enabled, following extra options are available in the Login window:

😽 InnovaTint LAB - Log	gin	
CPS	COL( any color	
Language:	English	•
Main database:	s6main	•
Local database:	s6local	•
Username:		
Password:		
Different userna	me and password f	
Local username:		2
Local password:		Statute Contractor
Recover Mode		👸 Login

**1.Local username:** The text field to type in the Username for local database.

**2.Local password:** The text field to type in the Password for local database.

#### 1.4 Database overview

In the **Database overview** page, you can view colorants, products, and color cards in whole database or in the selected system. In this page you can get an overview of all components in the database, and you can create a new system (name) in to the database.

In the main window, you have **System selector** (1) drop down list. In this list, you have following options:

🥶 s6main, s6local - InnovaTint - LAB (Workgrou		
System Selection	System selector (1)	
None None Monicolor 2401 Characterization 4 Characterization ament & Analysis		
Options	InnovaTint - LAB	
Services & Replication		
	<b>CPSCOLOR</b> <sup>TM</sup> any color you see	

2.None: Select None to see whole database.

3.Monicolor 2401 i.e. system name: Select system name to see system.

**4.<new>**: Select <new> to create new system (name).

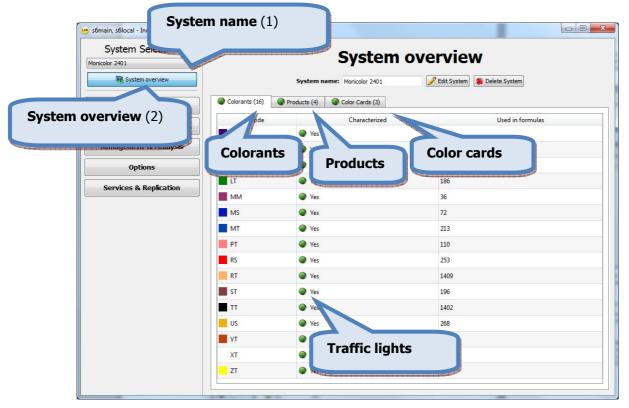
When selecting **None** (1) as a system (the whole database) from the system selector drop down list and the **Database overview** (2) button is clicked, following window opens up. This page has 3 tab pages: **Colorants, Products,** and **Color Cards**.

None (1)		ightly	
System Select	Colorants (16)	Databas Products (4) © Color Cards (3) Characterizes	e overview
Database overview (2)	olorants	Products	color cards
Options		Yes	186
Services & Replication	MM MS	<ul> <li>Yes</li> <li>Yes</li> </ul>	36
Services & Repikaton	MT	Yes	213
	PT	Yes	110
	RS	Yes	253
	RT	Yes	1409
	ST ST	Yes	196
	тт 🔳	Yes	1402
	US	Yes	268
	VT	Yes	525
	XT	Yes	361
	ZT	Yes	104

Colorants, products and color cards in database can be viewed by clicking on the corresponding tab page headers. Click on the  $\triangleright$  - button to navigate to the lower levels on the product hierarchy.

	Databa	ase overview
Colorants (16) Product	s (4) Olor Cards (3)	
Product Charact	erized Number of for	mulas System
👔 Exterior 2401 AABC 🔘 Yes	928	Monicolor 2401
🖌 🔨 vterior 2401 AAC 🛛 🔘 Yes	927	Monicolor 2401
Yes	582	
🕨 🥥 Yes	345	
BC 🥥 Yes	928	Monicolor 2401
Interior 2401 AAC Ves	928	Monicolor 2401
Colorants (16) Products (4)	Database o	overview
Card name	Colors mea	isured Colors in
quatec SF	200	200
fatching test	324	325
Aonicolor Nova 720	728	728

When selecting **System** (1) name is selected from the system selector drop down list and **Database overview** (2) button is clicked, following window opens up. This page has 3 tab pages: **Colorants, Products,** and **Color Cards**.



Note: You can also view all items on navigation section on the left hand side of the window. These functions are described on following sections.

Note: You can also see if system configuration is done properly from "traffic lights" in front of each item. The green light  $\bigcirc$  is meaning that configuration is ok, and the red light  $\bigcirc$  is meaning that some or all the information is missing.

In **Used in formulas** column you can see in how many formulas are in any of the specific colorant or product used. This information is helpful when deciding to delete any of the colorants or products from the system. With this information, you know how many formulations you need to rematch with the other colorants or products.

Colorants, products and color cards in the database can be viewed by clicking on the corresponding tab page headers.

Products window:

:	System overview
System name:	Monicolor 2401 System 🗱 Delete System
Colorants (16) Products (4)	Color Cards (3)
Product Characterized	Number of formulas
Exterior 2401 AABC Q Yes	928
🔺 Exterior 2401 AAC 🛛 🔘 Yes	927
AA 💮 Yes	582
Yes	345
🛛 🔽 🖉 Yes	928
🖉 🖉 Yes	928

Click on the ▶- button to navigate to the lower levels on product hierarchy.

In **Characterized** column Green Traffic lights symbol indicates if item is characterized into the database.

In **Number of formulas** column you can see in how many formulas are in any product used. This information is helpful when deciding to delete any colorant or product from system. With this information, you know how many formulations you need to rematch with other colorants or products, in such case.

Color cards window:

System overview		
System name:	Monicolor 2401 System	Celete System
Colorants (16)     Products (4)	Color Cards (3)	
Card name	Colors measured	Colors in card
Aquatec SF	200	200
Matching test	324	325
Monicolor Nova 720	728	728

In **Colors measured** column you can see how many colors are measured in to the color card.

In **Colors in card** column you can see how many color names or color codes are included in the color card.

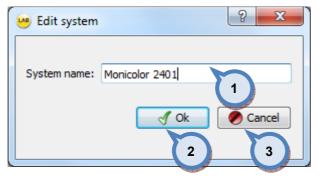
System overview window includes also 2 buttons to **Edit** system name and **Delete** system from the database.

		System o	overview
	System name	Monicolor 2401	🥜 Edit System 🏾 🏶 Delete System
Colorants (16)	Products (4)	Color Cards (3)	
Product	Characterized	Number of formulas	
Exterior 2401 AABC	🔵 Yes	928	
Exterior 2401 AAC	Yes	927	
AA	Yes	582	
С	Yes	345	
Interior 2401 AABC	Yes	928	
Interior 2401 AAC	Yes	928	

**1.Edit System:** The button to edit the system name.

**2.Delete System:** The button to delete the system.

When Edit system button is clicked following window will open up:



**1.System name:** The text field for the system name.

**2.OK:** The button to confirm changes.

**3.Cancel:** The button to discard the changes.

When Delete system button is clicked following window will open up:



**1.0K:** The button to confirm delete.

**2.Cancel:** The button to cancel delete.

When selecting **1.<new>** from the system selector drop down list following window opens up:

System name:	🤒 Add system	5 ×
	System name:	Ok Cancel

**1.System name:** The text field to input the name of the new system.

**2.Ok**: The button to confirm new system creation.

**3.Cancel:** The button to cancel new system creation.

# 2 Configuration

To make configuration to the selected system, click the **Configuration** button on the navigation area on the left hand side. Below this level, you find the configuration pages for: colorants, can sizes, abstract bases, units, products, and color management.

System Selection	
System overview	Confiquration
Configuration	
Colorants	
Can sizes	
Abstract bases	
Units	
Products	
Color management	
Matching & Characterization	
Management & Analysis	
Options	
Services & Replication	

You can see the configuration status for the components with the traffic lights: green meaning characterization done. Traffic lights are not in use when viewing the whole database i.e system selection as None.

# 2.1 Colorants

To make colorant configuration, navigate into the **Configuration ⇔ Colorants** page.

In colorants page you can:

- > Create new colorants linked with different can sizes and bar codes
- > Edit and delete existing colorants

<b>Colorants</b> Filter by system:	Selected cold	N	rants	code:	Select orant can si	izes
Colorant	RGB	SG (kg/l)	VOC (g / l)	Use in system	Can size code	In use
FT		1,34			0,251	
KS		1,31			0,51	
LS		1,39			1	<b>V</b>
LT		1,45				
MM		1,17			41	
MS		1,4			51	
MT		1,35			10	
PT		1,3			201	
RS		1,26				
RT		1,8				
ST		1,68				
TT		1,35				
US		1,25			🜗 Add new can size	
VT		1,85			Can barcodes	
ТХ		2,1			121233	
ZT		1,28		Bar codes	l	G
Sad tow	📄 🦳 🖛 Delet					

With barcodes you can control canister filling when colorant cans are bar coded.

Colorants	Selected cold	orant template		-		
filter by system:			<ul> <li>Filter by Colorant</li> </ul>	code:	Selected colorant can	sizes
Colorant	RGB	SG (kg/l)	VOC (g / l)	Use in system	Can size code	In use
FT		1,34			0,25 1	
KS		1,31				1000
LS 1		2 39	3 4	5	0,5 1	
LT		1,45	present and a second	I an annual t	11	
MM		1,17			41	
MS		1,4			51	
MT		1,35			10	
PT		1,3			20 1	
RS		1,26				
RT		1,8				
ST		1,68				
TT		1,35				
US		1,25			🜗 Add new can size	
VT		1,85			Can barcodes	
_ хт		2,1			121233	
ZT 6		7	8			
SAdd row	🤜 Delet	erow		and the second se		
System top-off cold	orant:				🔹 🚸 Reset	💾 Save

#### On the **Colorants** section you have the following items:

**1.Colorant:** The colorant name or code.

2.RGB: The color to be displayed on the screen.

**3.SG:** The specific gravity of the colorant. Unit of measure is kg/litre.

**4.VOC**: The amount of solvents in the colorant. Unit of measure is g/litre.

**5.Use in system**: When the check box is enabled, the colorant is included in to the selected system.

6.Add row: The button to add a new colorant, i.e. empty road.

7.Delete row: The button to delete a selected colorant, i.e. selected row.

**8.System top-off colorant:** The dropdown list to select Top-off colorant to be used with formulas if top-off is required by the selected product.

On the **upper part** of the **Colorants** window, you have the following template and sorting options:

ilter by system:			Filter by Colorant o	oder 1	S	elected colorant can s	izes
Colorant	RGB	2	VOC	Use an system	3	Can size code	In use
			(g / l)			0,1	
FT		1,34				0,25 I	
KS		1,31				0,5 I	
LS		1,39				1	
LT		1,45				41	
MM		1,17				51	
MS		1,4					
MT		1,35				10	
PT		1,3				201	
RS		1,26					
RT		1,8					
ST		1,68					
TT		1,35					2
US		1,25			(	🌗 Add new can size	J
VT		1,85				Can barcodes	
ХТ		2,1				121233	
ZT		1,28					
Add ann							
🌗 Add row	🤜 Delet	erow			-		

**1.Selected colorant template:** The drop down field to select a template.

Use 🔳 button to save a new template and 🔎 button to delete a selected template.

**2.Filter by system**: The text field to search by the system name or the code, or the part of one..

**3.Filter by Colorant code:** The text field to search by the colorant name or the code, or the part of one.

er by system:			Filter by Colorant	code:	Selected colorant can sizes		
Colorant	RGB	SG (kg/l)	VOC (g / l)	Use in system	Can size code	In use	
FT		1,34			0,25		
KS		1,31			0,1	2	
LS		1,39					
LT		1,45			11		
MM		1,17			41		
MS		1,4			51		
MT		1,35			10		
PT		1,3			20 1		
RS		1,26					
RT		1,8					
ST		1,68					
TT		1,35					
US		1,25			🜗 Add new can size	]	
VT		1,85			Can barcodes		
ТХТ		2,1			121233		
ZT		1,28					
📥 Add row	🔰 Delet	e row					

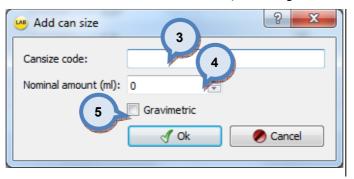
# On the **Can sizes** section you have following items:

**1.Can size code:** The code for the can size.

**2.In use**: When the check box is enabled the can size is used for the selected system.

**3.Add new can size**: The button to create a new can size for the system.

When **Add can size** button is clicked, following window will open up:



**3.Can size code:** The code for the can size.

**4.Nominal amount**: The total volume of the can. The unit of measure is millilitres.

**5**.**Gravimetric**: When the check box is enabled the can size is treated as gravimetric, instead of volumetric.

When a can size is selected from the can size list, bar code(s) related this can size are displayed on Can barcodes section, if bar codes are created for selected can size.

On the **Can barcodes** section you have following items available:

Colorants	Selected cold	orant template		-	*	
Iter by system:		•	Selected colorant can s	Selected colorant can sizes		
Colorant	RGB	SG (kg/l)	VOC (g / l)	Use in system	Can size code	In use
FT		1.34		7	0,1 1	
кs		1,31			0,25 1	
LS					0,51	
		1,39			11	
LT		1,45			41	
MM		1,17			51	
MS		1,4			10	
MT		1,35				_
PT		1,3			20 1	
RS		1,26				
RT		1,8				
ST		1,68				
TT		1,35				
US		1,25			🜗 Add new can size	]
VT		1,85			Can barcodes	
TX		2,1			121233	
ZT		1,28			1	-
👆 Add row	🗧 🗢 Deleta	e row				2
stem top-off cold	orant:				🔹 🤣 Reset	Nave

**1.The bar code:** The list of already created bar codes for the selected can size.

**2.**...:: The button to create or modify the bar codes for the selected can size.

When the can size is selected from the list and the button is clicked, following window will open up:

Colorant barcodes Barcode 121233 1 2 3	?
121233	
121233	
Add row Delete row	Cancel

1.The bar code: The list of already created bar codes for selected can size.

**2.Add row**: The button to create a new bar code i.e. add new row to the list.**3.Delete row:** The button to delete selected bar code, i.e. delete a selected row.

# 2.2 Can sizes

To make can size configuration, navigate into the **Configuration**  $\Rightarrow$  **Can sizes** page.

In can sizes page you can:

- > Create new can sizes with can shape information
- > Edit and delete existing can sizes and can shapes
- > Edit and delete bar code information for can sizes

Can shape feature is optional and is only used when compatible tinting machine or shaker is connected in to this software. Can sizes created in Can sizes page are visible on both Colorant and Products pages.

🤒 s6main, s6local - InnovaTint - LAB (W	orkgroup Edition)	v1.4.201	3.1	Can si	785		10			
System Selection	Can sizes:			san si	203					
<b>-</b>	Can size	Gravimet	rric	amount	Approximation (so that a section of the section of					
System overview	0,1 1		100.0 ml	6						
	0,25 1		250.0 ml							
Configuration	0,51		500.0 ml	i.						
Colorants	11		1000.0 n	nl						
Can sizes	41		4000.0 n	nl						
Abstract bases	51		5000.0 n	nl						
	10		10000.0	ml						
Units	201		20000.0	ml						
Color management	Add	can size	🤜 Delete can	size			C	an sh	apes	
Management & Analysis	Can shape	code He	eight (mm)	Width (mm)	Depth (mm)	Tolerance (mm)	Rectangular	Punch	Shelfdown	Shelfrefpos
Options	BOX	30	00	200	200	2				
Services & Replication										
	🛛 🌗 Add c	an shape	🤜 Delete can s	shape					🤣 Reset	E Save

Can sizes:								
Can size	Gravimetric	Nominal amo	unt					
0,1		100.0 ml						
0,25 1		250.0 ml						
0,5 1		500.0 ml						
11		1000.0 ml						
41 1		4000.0 ml	3					
51		5000.0 ml						
10	2	10000.0 ml						
20 1		20000.0 ml						
Add can Can shapes:	4 g	and the second s						
Can shape o	ode Height (r	mm) Width (mm)	Depth (mm)	Tolerance (mm)	Rectangular	Punch	Shelfdown	Shelfrefpos
вох	300	200	200	2	<b>V</b>			
<								ŀ
				m				
🌗 Add can s	hape 🦰 🤜 Delete	can shape					🤣 Reset	E Save

# On the **Can size** section **of the Can sizes** window, the following items are available:

1.Can size code: The code for the can size.

**2.Gravimetric**: When the check box is enabled the can size is treated as gravimetric instead of volumetric.

**3.Nominal amount**: Total volume of the can size. Unit of measure is millilitres.

4.Add new can size: The button to create a new can size for the system.

5. Delete can size: The button to remove selected can size from the system.

Can sizes:								
Can size	Gravimetric	Nominal amo	unt					
0,1		100.0 ml						
0,25 I		250.0 ml						
0,5 1		500.0 ml						
11		1000.0 ml						
41		4000.0 ml						
51		5000.0 ml						
10		10000.0 ml						
20 1		20000.0 ml						
Add can Can shapes:	size 🛛 🤜 Delete c	an size						
Can shape o	ode Height (mr	n) Width (mm)	Depth (mm)	Tolerance (mm)	Rectangular	Punch	Shelfdown	Shelfrefpos
	10	200 3	200	2 5	6	7	8	9
	hana) 🕞 Dalata ar						Dens/	
🌗 Add can s	hape 🤜 Delete ca	in snape					🤣 Reset	E Save

# On the **Can shape** section of the **Can sizes** window, the following items are available:

**1.Can shape code:** The code for the can shape.

**2.Height:** The height of the can.

3.Width: The width of the can.

4.Depth: The depth of the can.

5.Tolerance: The tolerance of measures.

**6.Rectangular:** When check box is enabled can shape is like a box.

**7.Punch:** When check box is enabled automatic punch is used.

**8.Shelfdown:** When check box is enabled automatic shelf down procedure is activated.

**9.Shelf refpos:** When check box is enabled automatic shelf reference position procedure is activated.

**10.Add can shape:** The button to create new can shape.

**11.Delete can shape:** The button to delete selected can shape.

# 2.3 Abstract bases

To make abstract base configuration, navigate into the **Configuration**  $\Rightarrow$  **Abstract bases** page.

In abstract bases page you can:

- > Create and edit abstract base codes
- > View in how many products and formulas abstract bases are used

🤒 sómain, sólocal - InnovaTint - LAB (Wo	rkgroup Edition) v1.4.2	013.1.2 nightly		
System Selection	Abstract bases			
<b>-</b>	Abstract base code	Used in products	Used in formu as	
System overview	AA	4	1190	
	В	2	113	
Configuration	с	4	398	
Colorants				
Can sizes				
Abstract bases			Abstract bas	ses
Units				
Products				tion (on the second
Color management				
Matching & Characterization				
Management & Analysis				
Options				
Services & Replication				
	Add row	🤜 Delete row		Reset 🔄 Save

**Abstract base**: Abstract base is a base code that could be used to describe the base material essence, for example pastel. Innovatint Lab allows all products which uses same abstract base to share information; formulas, characterization data. Abstract base can also have multiple degrees of data, for example, each product may have its unique formula base or characterization data.

On the Abstract bases	s window, you	I have following	items:
-----------------------	---------------	------------------	--------

Abstract bases					
Abstract base code	Used in products	Used in formulas			
АА	4	1190			
в	2	113			
с	4	398			
1	2	3			
4	5				
SAdd row	🤜 Delete row			Reset	📕 Save
	1.Abstrac	t base code:	The code for the	e abstract base.	
	2.Used in	products: Th	e number of pro	ducts using this	abstract base.
				- mulas using this	
				abstract base na	
					-
	5.Delete	row: The butto	on to remove se	lected abstract b	ase name.

**Note:** Abstract base cannot be deleted if abstract base is used in any product.

# 2.4 Units

To make unit configuration, navigate into the **Configuration**  $\Rightarrow$  **Units** page.

In units page you can:

- > Create new units
- > Edit and delete existing units

									its	
ain, s6local - InnovaTint - LAB (Wo System Selection	orkgroup Edition)	v1.4.2013.1.2_n	ightly					and the second	en foren foren foren foren foren foren for	
- v	Unit name	Gravimetric	Main unit	Div 1	Sym 1	Div 2	Sym 2	Div 3	Sym 3	Decima
System overview	g		1	1					-	2
	ml		1	1						2
Configuration	ml,0000		1	1						4
Colorants	US1/192		29,57	192	/192					2
Can sizes	US1/384		29,57	384	/384					2
Ú.	US1/48		29,57	48	/48					2
	US1/48Y		29,57	1	Y	48	/48			2
🧿 Units	US1/96		29,57	96	/96					2
Color management										
Options										
Services & Replication										
	•									
	Add 👘	row	Selete row	]				ø	Reset	💾 Save

11-14-

# On the **Units** window, you have following items:

	Gravimetric	Main unit	Div 1	Sym 1	Div 2	Sym 2	Div 3	Sym 3	Decimals	Minimum width
9		1	1						2	
ml		1	1						2	
ml,0000		1	1						4	
US1/192		29,57	192	/192					2	
US1/384		29,57	384	/384					2	
US1/48		29,57	48	/48					2	
US1/48Y		29,57	1	Y	48	/48			2	
1	2	3	4	5	6			d Constant	10	11
<	12		3							

1.Unit name: The name of the unit.

**2.Gravimetric**: When the check box is enabled, unit is treated as gravimetric unit, instead of volumetric unit.

3.Main unit: The main unit.

**4**.**Div 1:** The number used for 1<sup>st</sup> division.

**5.Sym 1**: The symbol for 1<sup>st</sup> division.

**6.Div 2:** The number used for 2<sup>nd</sup> division.

**7.Sym 2**: The symbol for 2<sup>nd</sup> division.

**8**.**Div 3:** The number used for 3<sup>rd</sup> division.

**9.Sym 3**: The symbol for 3<sup>rd</sup> division.

**10**.**Decimals:** The number of decimals displayed on the screen.

**11.Minimum width**: The number of minimum width of the amount of decimals used in export.

12.Add row: The button to add new unit.

**13.Delete row**: The button to delete a selected unit.

# 2.5 Products

To make product configuration, navigate into the **Configuration ⇒Products** page.

In products page you can:

- Create and edit products
- > Create and delete base paints into the products, with can sizes and bar codes
- > Set product properties, like: VOC-limit, over fill and primer product
- > Set base paint properties, like: specific gravity, VOC, and max fill

The products page has 2 sub pages: Product and Product details.

🤒 s6main, s6local - InnovaTint - LAB (Workgro	oup Edition) v1.4.2013.1.2_nightly			
System Selection	Product Product details			
<b>—</b>	F t Chan ed	Number of formulas	System	
System overview	ior 2401 AABC 🥥 Yes r 2401 AAC 🥥 Yes	928	Monicolor 2401 Monicolor 2401	
Config Produ		Product detail	IS 01	
Can sizes		na lana lana kana kana kana kana kana ka		
Abstract bases				
Units				
Products				
Color management				
Matching & Characterization				
Management & Analysis				
Options				
Services & Replication				
	New Product Clone prod	uct 🗱 Delete Product(s)		🔅 Reset 📔 Save

Product	Product deta	ils				
Product	*	Characterized	Number of formulas	System		
	rior 2401 AABC	-	928	Monicolor 2401		
	rior 2401 AAC	-	927	Monicolor 2401		
	rior 2401 AABC rior 2401 AAC		928 928	Monicolor 2401 Monicolor 2401		
	2	3	4			
Ne Ne	ew Product	Clone product	Selete Product(s)		🔅 Reset	💾 Save

In the **Product** tab page of the **Products** window, you have following items:

 ${\bf 1.}$  The product list with characterization indicator (Yes/No), number of formulas for each product, and system name.

**2.New Product**: The button to create a new product. See details on this function on following pages.

**3.Clone product**: The button to copy the details of an existing product into a new product.

4.Delete Product(s): The button to delete a selected product or products.

When the New Product or Clone Product buttons are clicked, following window opens up:

	🤒 New product	
	Product Name	Exterior 2401 AABC
		Product name is already in use
	System:	Monicolor 2401
3	Paint coverage	m² 🗣 - 🚺 m² 荣
the second second	VOC limit	0,00 g / l
	5	Allow over fill
	Product ty 7	Normal 8 Primer
	Primer product	9 -
	Primer colour card	
11	Clone Product	Exterior 2401 AABC
-	Clone also prod	uct formulas
12	Clone Characte	rization data
13		🖉 Ok 🖉 Cancel

**1.Product Name:** The name of the product (the product name must be unique).

2.System: The system name or code, selected from the dropdown list.

**3.Paint coverage:** The lower and the upper limit for the paint coverage. The unit of the measure is litre/m2.

**4.VOC limit**: The value for the VOC limit. The unit of the measure is grams/litre.

**5.Over fill:** The check box to determine if the total amount of paint and colorant can exceed the nominal amount of the paint can.

**6.Product type normal:** Radio button to set the product as the normal product.

**7.Product type primer:** Radio button to set the product as the primer product.

**8.Primer product**: The drop down list to select the primer for this product (optional: only if the primer is needed).

**9.Primer colour card:** The drop down list to select a color card to be used for the primer. (optional: only if the primer is needed).

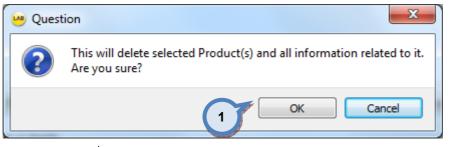
**10.Clone product**: The check box to copy the product details of an existing product into a new product. Use the drop down list on the right to select a product to copy from.

**11.**When the **Clone product** check box is enabled, two further options are available:

**12.Clone also product formulas**: When the check box is enabled, also the formulas are copied.

**13.Clone Characterization data**: When the check box is enabled, also the characterization data is copied.

When the **Delete product(s)** button is clicked, following window opens up:



**1.OK:** Confirm the delete of the product.

Note: When the product is deleted, all product related information is also deleted.

In the upper section of the **Products** window > **Product details** tab page, you have following options available:

AA A B E	Abstract base AA B C	SG (kg/l) 1 1	VOC (g / l)	Max fill 10.00 % 10.00 % 10.00 %	Min fill 0.00 % 0.00 % 0.00 %	Nominal fill 90.00 %	Top o	1 1 1	Servited base p 2 Can size code 0,25 1	an Sh 3
A A A	<b>base</b> AA B	(kg/l) 1 1		10.00 % 10.00 %	0.00 % 0.00 %	fill 90.00 % 90.00 %		1	Can size code	e In use fill
3 E	В	1		10.00 %	0.00 %	90.00 %				e In use fill
								1	0.251	
	с	1		10.00 %	0.00 %			10.0		
						90.00 %		1	11	
									41	
									10	
									0,1	
🍦 A	Add row							🤜 Delete row	0,5 I	
roduct d	details								51	
Blend	ded base:	AA						-	20 1	
ystem:		Monicolor	2401					•		
aint cov	/erage:			r	m² /   🊔 -	-		m² /   🚔	- Ad	d new can size
OC limit:	:				g / I 🌲				Can barcodes	
		Allow o	over fill						649990002	
roduct t	10	Norma	1		-	Primer				
rimer pro								•		
rimer col	olor card:							•		

**1.New Product:** The button to create a new product. See the new product window on the previous pages.

**2.Edit Product**: The button to edit a selected product. Select product from the drop down list (**4**). Edit product window has the same details as in new product window, see the new product window on the previous pages.

**3.Delete Product**: The button to delete a selected product. Select product from the drop down list (**4**). See the delete product window on the previous pages.

In the **Base paints** section of the **Products** window > **Product details** tab page, you have following options available:

roduct: Exterio	or 2401 AABC			•	🔒 New	Product	<i>)</i> E	dit Product	🍔 De	ete Produc
se paints							S	elected base pai		es
Base Abstract base		/OC g / l) Max fil	I Min fill	Nominal fill	Top off	Multiply		Car	n Shape	
AA AA	1	10.00 %	0.00 %	90.00 %		1		an size code	In use	Nominal fill
		1 00 %	nn %	0.00 %		1		25 I		
	2 🔪 3	3 4	5	6	7	8	9	1	V	
		and the second second	and the second s	A REAL PROPERTY OF	- A CONTRACT		and the second		V	
(	10				11		1	01		
	A Designation of the local division of the l				Survey and the local local local			11		
						The second secon		11		
😽 Add row						Delete row	511	),5 I		
						Delete row			-	
	AA					Delete row		),5 I		
oduct details ] Blended base:	AA Monicolor 24	401						),5 I i I 20 I		
oduct details		401	m²/I ▲	·				),5 I i I 20 I		size
oduct details ] Blended base: /stem: aint coverage:		401	m²/l ♠ g/l ♠	·				),5 I i I 20 I		size
oduct details ] Blended base: /stem: aint coverage: DC limit:				•				0,5 I 6 I 20 I <b></b> Add		size
oduct details Blended base: rstem: int coverage: DC limit: oduct type:	Monicolor 24			<ul> <li>Primer</li> </ul>		m² /1 🖉		51 51 201 • Add		size
oduct details ] Blended base: /stem:	Monicolor 24							51 51 201 • Add		

1.Base: The name or the code of the base paint.

2.Abstract base: The name or code of the abstract base.

**3.SG**: The specific gravity of the base paint. Unit of measure is kg/litre.

4.VOC 1: The amount of solvents in the base paint. Unit of measure is g/litre

**5.Max fill**: The number of maximum filling level of the base paint and colorants in the base paint can. Unit of measure is percentage.

**6.Min fill:** The number of minimum filling level of the base paint and colorants in the base paint can. Unit of measure is percentage.

**7.Nominal fill**: The number of the filling level of the base paint in the base paint can. Unit of measure is percentage.

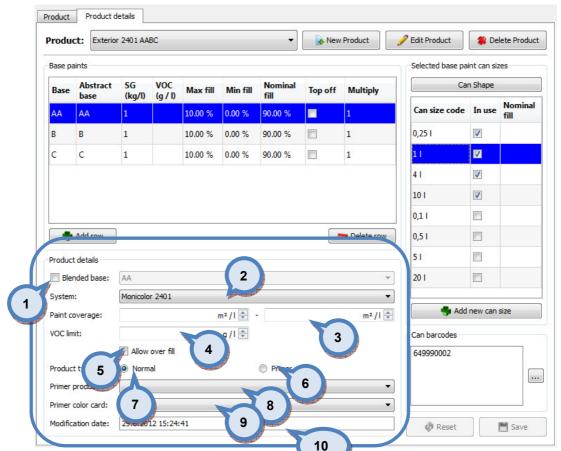
**8.Top off:** When check box is enabled, top off method is used, i.e. paint can is filled to be 100% full.

**9.Multiply**: The number used to multiply the base paint amount in the color formula.

10.Add row: The button to add new base paint.

11.Delete row: The button to delete a selected base paint.

In the **Product details** section of the **Products** window > **Product details** tab, you have following options available:



**1.Blended base:** When the check box is enabled, the product is using blended base method, i.e. mixing clear and white base paint (or colored bases). The blended base code is shown in the dropdown list, right hand side of the check box. Note: Blended base paint should have SG of 1.0.

2.System: The system selector drop down list.

**3.Paint coverage**: The minimum and maximum area of substrate you are able to apply paint into (with fully opaque paint layer) with 1 litre of the paint. Unit of measure is square metre / litre.

**4.VOC limit:** The maximum amount of the solvents in the base paint and the colorant mixture. Unit of measure is g/litre.

5.Over fill: When check box is enabled, over fill is enabled

**6.Product type normal:** Radio button to set the product as the normal product.

**7.Product type primer:** Radio button to set the product as the primer product.

**8.Primer product:** The drop down list to select product to be used as a primer.

**9.Primer color card**: The drop down list to select color card to be used with a primer.

**10.Modification date:** The date and time of last modification of product details.

In the **Product details** tab **Selected base paint can sizes** and **Can barcodes** sections of the **Products** window, you have following options available:

oduct	Product of	details						0.000	
rodu	ct: Exterio	r 2401 AAE	BC			•	🕞 New	Product	🖋 Edit Product 🛛 🗱 Delete Product
ase pa	aints								Selected base paint can sizes
Base	Abstract base	SG (kg/l)	VOC (g / l)	Max fill	Min fill	Nominal fill	Top off	Multiply	Can Shape
4A	AA	1		10.00 %	0.00 %	90.00 %		1	4 an size code In use Nominal fill
3	в	1		10.00 %	0.00 %	90.00 %		1	0,25 1
2	с	1		10.00 %	0.00 %	90.00 %		1	11 🔽
								· ( ·	1 41
								-	101 2
									0,11 6
-	Add row	)						Delete row	0.51
		J							51
20	t details	<b></b>							
_	nded base:	AA							201 3
ystem		Monicolo	r 2401						
	overage:			r	m² /   🌲	·		m² /	
OC lin	nit:				g / I 🌲				Can barcodes
		Allow	over fill						649990002
						Co			
roduc	t type:	Norma	al			Primer			
	t type: product:	Norma	al			Primer			
rimer		Norma	al			Primer			

**1.Can size code:** The code for the can size.

**2.In use**: When the check box is enabled the can size is used for the selected base paint.

**3.Add new can size**: The button to create a new can size for the base paints.

**4.Can shape**: The button to create or modify can shapes for the can sizes.

**6.Nominal fill:** Option to set nominal fill to deviate from the others, that is, the base nominal fill % is used unless set other.

When the Add new can size button is clicked, following window opens up:

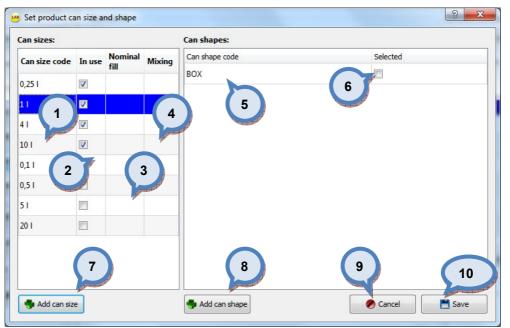
🤒 Add can size	2 ×
Cansize code:	
Nominal amount (ml):	
3	Gravimetric
	🗹 Ok 🖉 Cancel

**1.Cansize code:** The code for the can size.

**2.Nominal amount (ml)**: The total volume of the can. The unit of measure is millilitres.

**3.Gravimetric**: When check box is enabled the can size is treated as gravimetric, instead of volumetric.

When the **Can shape** button is clicked, following window opens up:



1.Can size code: The name or code for the can size.

**2.In use**: When the check box is enabled the can size is used for the selected base paint.

**3.Nominal fill:** Option to set nominal fill to deviate from the others, that is, the base nominal fill % is used unless set other.

**4.Mixing**: The number of cycles used in mixing machine or shaker to mix the paint can after tinting.

5.Can shape code: The code or name for the can shape.

**6.Selected:** When check box is enabled this can shape is used for selected can size.

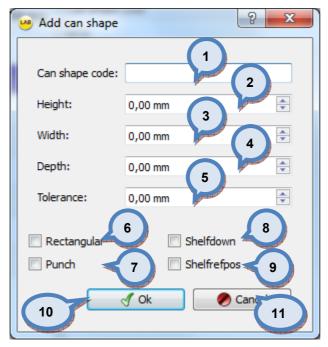
7.Add can size: The button to add new can size.

8.Add can shape: The button to add new can shape.

**9.Cancel:** The button to cancel all changes made.

10.Save: The button to save changes

When the <b>Add can shape</b>	button is cl	licked, following	window opens up:
-------------------------------	--------------	-------------------	------------------



- 1.Can shape code: The name or code for the can shape.
- 2.Height: The height of the can.
- 3.Width: The width of the can.
- 4.Depth: The depth of the can.
- 5.Tolerance: The tolerance of measures.
- **6.Rectangular:** When check box is enabled can shape is like a box.
- 7.Punch: When check box is enabled automatic punch is used.
- **8.Shelfdown:** When check box is enabled automatic shelf down procedure is activated.
- **9.Shelf refpos:** When check box is enabled automatic shelf reference position procedure is activated.
- **10.OK:** The button to save new can shape information.
- **11.Cancel:** The button to cancel all changes made.

When base paint and can size is selected and the **can bar code** button is clicked, following window opens up:

Can barcodes		jaan ja		? ×
Can barcodes				
Barcode				
649990002				
Add rogan	Delete pow		Cancel	Вок

1.Barcode: The text field for bar code.

2.Add row: The button to add new bar code.

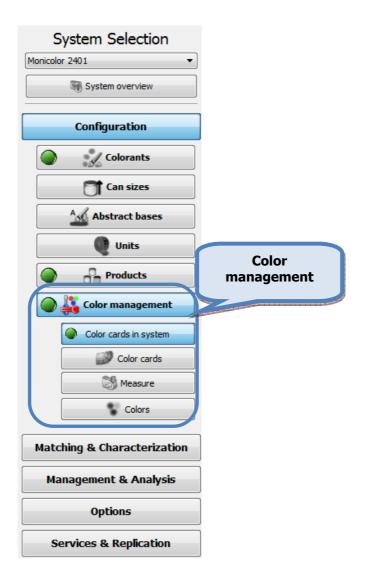
**3.Delete row:** The button to delete selected bar code.

# 2.6 Color management

To manage colors and color cards, navigate into the **Configuration**  $\Rightarrow$  **Color management** page.

In color management page has four sub pages, where you can:

- > Create and edit color cards with color codes
- > Set color cards to be used in systems (if system selected)
- > Measure colors into color cards
- > View color information on color cards



# 2.6.1 Color cards in system

To manage color cards in system, navigate into the **Configuration**  $\Rightarrow$  **Color management**  $\Rightarrow$  **Color cards in system** page.

In color cards in system page you can:

- > View and set color cards in system.
- > Save and use color card templates
- > Use filter option to search color cards in system

🤒 s6main, s6local - InnovaTint - LAB (Wo	rkgroup Edition) v1.4.2013.1.2_ni	ghtly		
System Selection	Color cards in system			
Monicolor 2401	Colour card template:		-	
System overview	Filter:			
	Color card name	Measured	Number of colors	Use in system
Configuration	Aquatec SF	200	200	
Colorants	Matching test	324	325	
Can sizes	Monicolor Nova 720	728	728	
Abstract bases				
Units				
Products				
Color management				
Color cards in system				
Color cards				
Measure				
Colors				
Matching & Characterization				
Management & Analysis				
Options				
Services & Replication				Reset Save

In the Color cards in system window	, the following items are available
-------------------------------------	-------------------------------------

Color cards in system						
Colour card template:						
Filter: 1	1. Start Manual Start					
Color card name	Measured	Number of colors	3 Use in system			
Aquatec SF	200	200				
Matching test 5	324 6	325 7	☑ 8	)		
Monicolor Nova 720	728	728				
			🕼 Reset	Save		
	and tomalate	. The drep down list f	or color card terral	oto		
<b>1.Color card template:</b> The drop down list for color card template.						

**2.Filter:** The text field to filter color card list below.

**3. The button to save color card template.** 

4. 🕌: The button to delete color card template.

**5.Color card name:** The text field to view the color card name.

**6.Measured:** The text field to view the number of colors measured in this color card.

**7.Number of colors:** The text field to view the number of colors in this color card.

**8.In system:** When check box is enabled this color card is used in this system.

# 2.6.2 Color cards

To measure colors, navigate into the **Configuration**  $\Rightarrow$  **Color management**  $\Rightarrow$  **Color cards** page.

In color cards page you can:

- > Create and edit color card names or codes
- > Create and edit color codes in color cards

🥗 sбmain, sбlocal - InnovaTint - LAB (Wo	rkgroup Edition) v1.4.	2013.1.2_nightly	
System Selection	Color cards	Colors in card	Manual add
Monicolor 2401	C.rd name	Colors ASF 1010	C or 1
System overview	/ quatec SF	in car ASF 1011	Chlor2 Chlor3 Chlor4
		200 ASF 1013	E Color4
Configuration	I latching test	325 ASF 1014	
		728 ASF 1020 ASF 1021	
	<sup>.</sup> cards	ASF 1022	
	carus	ASF 1023	
		ASF 1024	
And Annual Annua		ASF 1030	
Units		ASF 1032	
Units		ASF 1033	
Products		ASF 1034	
		ASF 1041	Colors to be moved
Color management		ASF 1042	into the color card
Color cards in system		ASF 1043	
Color cards		ASF 1044	
		ASF 1051	
Measure		ASF 1052	
Colors		ASF 1053	
Matching & Characterization		Colors in the	
Management & Analysis		color card	
Options			
opdolis		ASF 1071	- 🔊 Paste 🍂 Clear
Services & Replication	Add color card	- Delete color card s)	🔗 Reset 🛛 🛅 Save

C lor cards	Colors in card		Manual add	•
Card name Col		^ C	olor 1	
in c	ard ASF 1011	C	olor 2	
Aquatec SF 200	ASF 1012		olor3 olor4	
	ASF 1013	E		
Matching ter 5	ASF 1014			
	ASF 1020			
Monicolor N	ASF 1021			
	ASF 1022			
	ASF 1023			
	ASF 1024			
	ASF 1030			
	ASF 1031			
	ASF 1032			
	ASF 1033			
	ASF 1034			
	ASF 1040			
	ASF 1041			
	ASF 1042			
	ASF 1043			
	ASF 1044			
	ASF 1050			
	ASF 1051			
	ASF 1052			
	ASF 1053			
	ASF 1054			
	ASF 1060			
	ASF 1061			
	ASF 1062			
$\sim$	ASF 1063			
	ASF 1064			
3 4	ASF 1070		•	
	ASF 1071	*	🚺 Paste	🆇 Clear
Add color card Selete color ca	ard(s)		Reset	Save

#### In the Color cards section of the Color cards in system window, the items are available:

**1.Card name:** The text field to display the color card name.

**2.Colors in card:** The text field to display the number of colors in the color card.

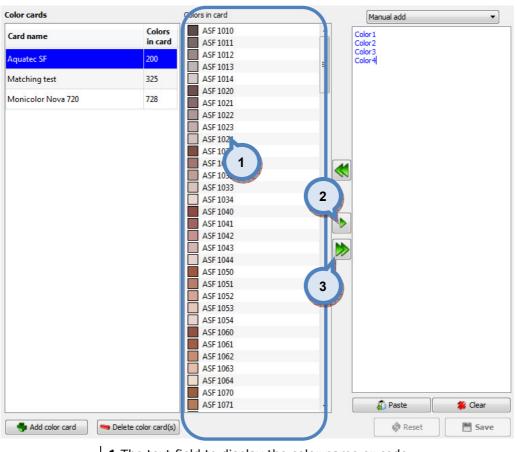
3.Add color card: The button to add new color card (name).

4.Delete color card: The button to delete selected color card.

When the **Add color card** button is clicked, following window opens up:

🤒 Add color card	8 ×
Color card name:	NEW Color card

1.Card name: The text field for the color card name.



In the **Colors in card** section of the **Color cards in system** window, the following items are available:

1. The text field to display the color name or code.

**2.** The button to remove selected color from the color card.



**W**: The button to remove all colors from the color card.

Color cards		Colors in card	Manual add
Card name	Colors	ASF 1010	Color 1
card name	in card	ASF 1011	Color 2
Aquatec SF	200	ASF 1012	Color3
		ASF 1013	
Matching test	325	ASF 1014	
Monicolor Nova 720	728	ASF 1020	
	720	ASF 1021	
		ASF 1022	
		ASF 1023	
		ASF 1024	
		ASF 1030	2
		ASF 1031	
		ASF 1032	
		ASF 1033	
		ASF 1034	
		ASF 1040	
		ASF 1041	
		ASF 1042	
		ASF 1043	
		ASF 1044	
		ASF 1050	
		ASF 1051	
		ASF 1053	
		ASF 1054	
		ASF 1060	
		ASF 1061	
		ASF 1062	
		ASF 1063	
		ASF 1064	4 5
		ASF 1070	
		ASF 1071	🔹 👘 Paste 👘 🏶 Clear
🜗 Add color card	🗢 Delete color card(s)		Reset Save

In the **right hand side** section of the **Color cards in system** window, the following items are available:

**1.**The drop down list to select which color names or codes are displayed on the text field below this selector. Options are:

-**Manual add:** If selected, you can type with keyboard or paste from the clipboard color codes into the text field below this selector.

-**All existing:** If selected, all existing color names or codes are listed on the text field below this selector.

-Not in color card(s): If selected, all existing color names or codes which are not included on any of the color cards in the database are listed on the text field below this selector.

-"Color card name(s)": If selected, all color names or codes in selected color card are listed on the text field below this selector.



**2.** The button to copy all color names or codes listed on text field (3) in to the selected color card.

**3.:** The text field to display all color codes or name inputted by any of the methods mentioned on point 1.

**4.Paste**: The button to paste color codes or names from the clipboard (point 1. Manual add)

5.Clear: The button to clear text field (3.)

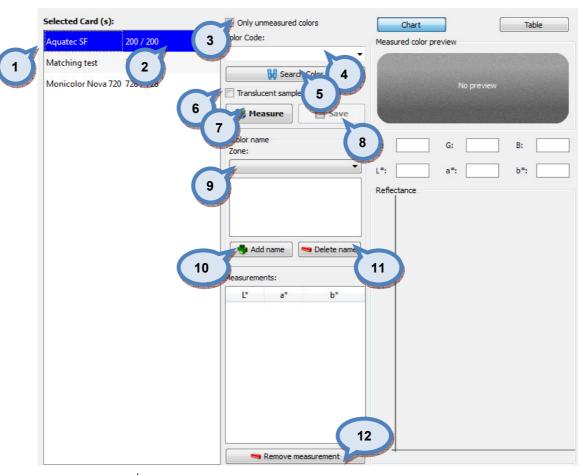
### 2.6.3 Measure

To measure colors, navigate into the **Configuration** *⇒* **Color management** *⇒* **Measure** page.

In measure page you can:

- > Measure colors in color cards
- > View coloristic information of measurements on both visual and numerical format
- Edit color name in zones

🥶 s6main, s6local - InnovaTint - LAB (Wo	orkgroup Edition) v1.4.2013.1.2_nightly		
System Selection	Selected Card (s):	☑ Only unmeasured colors	Chart Table
System Selection Monicolor 2401 System overview Configuration Configuration Color cards Color cards in system Color cards Measure Colors	Selected Card (s): Aquatec SF 200 / 200 Matching test 324 / 325 Monicolor Nova 720 728 / 728	Color Code: Color Code: Translucent sample Color name Zone: Add name Measurements: L* a* b*	Chart         Table           Measured color preview         No preview           R:         G:         B:           L*:         a*:         b*:           Reflectance         Image: Second S
Matching & Characterization Management & Analysis Options			
Services & Replication		Remove measurement	0



#### In the **Measure** window, the following items are available:

1.Select Card(s): The text list to select color card or multiple color cards.

2.Number of colors/measured colors.

**3.Only unmeasured colors:** When the check box is enabled only unmeasured colors are shown in color code drop down box.

4.Color Code: The drop down box to select a color code.

5.Search Color: The button to execute search function.

**6.Transclucent sample:** When this check box is enable, additional measurement options are visible on measurement section. If check box is not enabled measurement is done as fully hiding or opaque sample.

7.Measure: The button to execute the color measurement process.

**8.Save:** The button to save the measurement data.

9.Zone: The drop down box to select zone.

**10.Add name:** The button to add name for the color.

**11.Delete name:** The button to delete selected color name.

**12.Remove measurement:** The button to remove the selected measurement.

Selected Card (s)	e		Only unmeasured colors	Chart	Table
Aquatec SF	200 / 200		Color Code:	Measured color preview	
Matching test	324 / 325				
Monicolor Nova 7		0	W Search Color     Translucent sample     Selected substrate     INNOVATINT     New     Measure     Measure     Color name	No previet	N B: b*:
			Color name Zone: Default Zone Add name Delete name Measurements:		
			L* a* b*	0	

When the **Translucent sample** check box is enabled, following measurement options are available:

**1.Transclucent sample:** When this check box is enable, additional measurement options are visible on measurement section. If check box is not enabled measurement is done as with fully hiding or opaque sample.

**2.Selected substrate:** The drop down box to select substrate.

**3.New:** The button to create a new substrate.

4.Wet film thickness: The text box to select used film thickness.

lack	ite code	MY new	1							
	3	Measure R	В	l	r I				Average	Preview (Average)
Meas	urements			2	1				RB1	
	L*	a*	b*	2	1				RB3	-
RB1	0,0	0,0	0,0	70	]					
RB2		0,0	0,0	60						
RB3	0,0		0,0	50	-					2
		6 ]		40	-		8			-
				30	-					
		-410000		20	-		Root			-
				10	1					
	🗯 Dele	te measur	ement	o	440	480 57	20 560	600	640 680	
	🍔 Dele	te measur	ement	o	440	480 52	20 560	600	640 680	
/bita	🇱 Dele	te measur	ement	0	00 440	480 52	20 560	600	640 680	
/hite				o	440	480 52	20 560	600		
/hite		te measuro Measure R		0	HOO 440	480 57	20 560	600	Average	Preview (Average)
_	1	Measure R		3	+++++++++++++++++++++++++++++++++++++++	480 52	20 560	600		Preview (Average)
_		Measure R		0	440	480 52	20 560	600	Average RW1	Preview (Average)
_	Surements L*	Measure R s (D65)	w	3	440	480 5;	20 560	600	Average RW1 RW2	Preview (Average)
Meas	Surements L* 0,0	Measure R s (D65) a*	W b*	° 3 4	440	480 5;	20 560	600	Average RW1 RW2	Preview (Average)
Meas RW1 RW2	Surements L* 0,0 0,0	Measure R s (D65) a* 0,0 0,0	W 0,0 0,0	° 3 4	440	480 5:	20 560	600	Average RW1 RW2	Preview (Average)
Meas RW1	Surements L* 0,0 0,0	Measure R s (D65) a* 0,0	W b* 0,0	0 3 4 70 60		480 5:	9	600	Average RW1 RW2	Preview (Average)
Meas RW1 RW2	Surements L* 0,0 0,0	Measure R s (D65) a* 0,0 0,0	W 0,0 0,0	0 3 4 70 60		480 5:	9	600	Average RW1 RW2	Preview (Average)
Meas RW1 RW2	Surements L* 0,0 0,0	Measure R s (D65) a* 0,0 0,0	W 0,0 0,0	0 3 4 70 60 50 4		480 5:	9	600	Average RW1 RW2	Preview (Average)
Meas RW1 RW2	Surements L* 0,0 0,0	Measure R s (D65) a* 0,0 0,0	W 0,0 0,0	0 3 4 60 50 30		480 5:	9	600	Average RW1 RW2	Preview (Average)
Meas RW1 RW2	3 r surements L* 0,0 0,0 0,0	Measure R s (D65) a* 0,0 0,0	W 0,0 0,0 0,0	0 3 4 70 50 4 30 20 10 0		480 5:	9		Average RW1 RW2	Preview (Average)

#### When the **New** button is clicked, following window opens up:

**1.Substrate code:** The text field for a substrate code or name.

2.Measure RB: The button to measure substrate over black background.

**3.Delete measurement:** The button to delete selected measurement from the field 6.

4.Measure RW: The button to measure substrate over white background.

**5.Delete measurement:** The button to delete selected measurement from the field 7.

**6.Measurements (D65):** The text field to display measurement values over black substrate.

**7.Measurements (D65):** The text field to display measurement values over white substrate.

8.Visual interpretation of values from field 6.

**9.**Visual interpretation of values from field 7.

Selected Card (s):		Only unmeasured colors	Chart	, Table
Aquatec SF	200 / 200	Color Code:	Measured color	
Matching test Monicolor Nova 72	324 / 325 20 728 / 728	Search Color      Translucent sample      Save	No p	review
		Color name Zone:	R: G:	B:
		Add name Delete name  Measurements:	Reflectance	
		Remove measurement		

In the Measured color preview section, the following options are available:

1.Chart: View measured values as chart.

2.Table: View measured values as table.

elected Card (s)	):	Only unmeasured colors		Chart		Table
Aquatec SF	200 / 200	Color Code:		RINF	RB	RW
		ASF 1011	▼ nm 400		ND	IN VY
Matching test	324 / 325			15,01		
Aonicolor Nova 7	720 720 (720	😡 Search Color	420	15,49 14,86		
lonicolor Nova /	120 128 / 128	Translucent sample	440	14,80		
			400	13,86		
		Selected substrate	500	13,55		
		INNOVATINT	520	13,61		
			540	13,6		
		New	560	14,25		
		Wet film thickness: 300 µm		16,69		
		Soo pin	600	18,55		
		Measure Save	620	19,03		
			640	19,05		
		Color name	660	18,98		
		Zone:	680	19,02		
		Zone: Default Zone	700	18,94		
		Add name Selete nam	e			
		Measurements:				
		L* a* b*				
		Remove measurement				

#### 2.6.4 Colors

To manage colors measured in color cards, navigate into the **Configuration**  $\Rightarrow$  **Color management**  $\Rightarrow$  **Colors** page.

In colors page you can:

- > View coloristic information of measurements on both visual and numerical format
- > Create and edit color names in zones
- > Create and edit bar codes for colors
- Search coloristically similar colors (target color can be either measured or retrieved from database)
- > Add reflectance values manually for color

System Selection	Color information Cl	losest color	Chart	Table
nicolor 2401 🔹	Color card:	Color information	Color reflectance	
System overview	Monicolor Nova 720		F 120.0 b*	
			- 100.0 B <sup>-</sup>	
	Search: L0		50.0	
Configuration	NOVA L016	A	F60.0	
	NOVA L017		F40.0	
Colorants	NOVA L018			
	NOVA L021	Set RGB	a* -40.0 -20.0 20.0 40.0	60.0
Can sizes	NOVA L027			
A	NOVA L029	R: 77 G: 155 B:	152	
Abstract bases	NOVA L030	L*: 59,39 a*: -25,00 b*:	-5,84	
<b>A</b>	NOVA L031	Thickness:		-
Units	NOVA L032	Inickness:	μm	
	NOVA L033	Substrate:	100 -	
Products	NOVA L037	Measure date: 12.3.2012 12	:10:41 90	
<b>N I N N</b>	NOVA L038	Spectro:		
🔵 🚜 Color management	NOVA L039	specuo:	80 -	
	NOVA L043	Color names		
Color cards in system	NOVA L044	Zone	70 -	
Color cards	NOVA L048		▼ 60 -	
	NOVA L050			
Measure	NOVA L052	CANTON JADE	50 -	
	NOVA L058			
Scolors	NOVA L060		40 -	
	NOVA L071		30 -	
atching & Characterization	NOVA L072			
g of one decent decon	NOVA L077	📥 Add name 🤝 Delet	te name 20	
Management & Analysis	NOVA L079	Color barcodes	10	
management & Analysis	NOVA L081		10 -	
0-11		<b>•</b>	0	1.1
Options	🖉 Edit color 🛛 📗	Clone color	400 460 520 580 6	640
Services & Replication	Add color	Remove color	@ Reset	M Save

Color card:	Color information	Color reflectance
Monicolor Nova 720	2	- 120.0 b*
		100.0
Search: 3		E 100.0
NOVA L016		
NOVA LOID		60.0
NOVA L017		a* 500
NOVA L011	Set RGB	a* -40.0 -20.0 = 20.0 40.0 60.0
NOVA LO27	Set Kob	
NOVA L029 5	R: 77 G: 155 E	-20.0
NOVA L030	L*: 59,39 a*: -25,00 b	)*: -5,84 -40.0
NOVA L031		
NOVA L032	Thickness:	μm
NOVA L033	Substrate:	100 -
NOVA L037	Measure date: 12.3.2012	12:10:41
NOVA L038		90 -
NOVA L039	Spectro:	80 -
NOVA L043	Color names	
NOVA L044	Zone	70 -
NOVA L048		▼ 60 -
NOVA L050		<sup>™</sup> ]
NOVA L052	CANTON JADE	50 -
NOVA L058		
NOVA L060		40 -
NOVA L071		30 -
NOVA L072		
NOVA L077	📥 Add name 🔤 De	elete name 20
NOVA L079	Color barcodes	10 -
		0
Sedit color	e color 9	400 460 520 580 640

- **1.Color Information:** The button to view color information.
- 2.Closest color: The button to search closest color.
- **3.Color card:** The drop down list to select color card.
- 4.Search: The text field to enter search criteria.
- **5.Color code list:** The text list to show color code search result.
- 6.Edit color: Allows to edit color code

**7.Clone color:** Will open a window to clone color values and possible formulas to a new color, see below.

- 8.Add color: The button to add new color code.
- **9.Remove color:** The button to remove selected color.

Color information	Closest color		Chart Table
Color card:		Color information	Color reflectance
Monicolor Nova 720	+		- 120.0 b*
Search: L0			100.0
NOVA L016	<u>^</u>	(1)	60.0
NOVA L017			- 40.0
NOVA L018		Set BCR 2	a* -40.0 -20.0 20.0 40.0 60.0 80.0
NOVA L021		Set RGB	-40.0 -20.0 - 20.0 40.0 80.0 80.0
NOVA L027		R: 77 G: 155 B 152	-20.0
NOVA L029			-40.0
NOVA L030		L*: 59,39 a*: -25,00 b*: -5,84	
NOVA L031		Thickness: µm	RINF
NOVA L032		Substrate:	3
NOVA L033			
NOVA L037	4	Measure date: 12.3.2012 12:10:41	
NOVA L038		Spectro:	5
NOVA L039	6	A	
NOVA L043	0	Zone	70 -
NOVA L044	Contraction of the local division of the loc		
NOVA L048		-	60 -
NOVA L050		CANTON JADE	50 _
NOVA L052			
NOVA L058			40 -
NOVA L000			
NOVA L072			30 -
NOVA L072		🐳 Add name 🛛 🤜 Delete name	20
NOVA L079		Color barcodes	
NOVA L081			10 -
	-		
Sedit color	Clone color		400 460 520 580 640 700
📥 Add color	🤜 Remove color		Reset Save

When a color code is selected from the list, the following options available on **Color information** section:

**1.Color Information:** The visual interpretation of the color.

**2:**The color values: (R, G, B) and (L\*, a\*, b\*).

**3.Thickness:** The text field to show film thickness used on measurement, if data available.

**4.Substrate:** The text field to show substrate used on measurement, if data available.

5.Measure date: The text field to show date of measurement.

**6.Spectro:** The text field to show the spectrophotometer used on measurement.

When a color code is selected from the list which has not been measured and does not have reflectance values in the database, the following options available on **Color information** section:

Color information	Closest color			Chart		Table	
Color card:		Color information	Color refle	ectance			
	•		nm	RINF	RB	RW	
Search: L0			400		1 ND		
Search. LU			410	5	/		
TEST1	_		420				
NOVA L016	1		430				
NOVA L017			440				-
NOVA L018		Set RGB	440				
NOVA L021		R: 0 G: 0 B: 0					
NOVA L027			460				
NOVA L029		L*:a*:b*:	470				
Select Color		-	- X				
	2						Ξ
Basic colors	and the second second						
	<b>•</b> • • • •	3					
		4					
Custom colors							
			255 ≑				
		Sat: 0 🜩 Green:	255 ≑				
		Val: 255 🖨 Blue:	255 🜩				
Add to (	Custom Colors						-
		ОК С	Cancel		Г	IN Co.	
				eset		📕 Save	

1.Set RGB: The button to manually add RGB values for the color code.

When Set RGB button is clicked, the Select Color window opens up:

**2.Basic colors:** The table of basic colors that can be attached to the color code.

**3.Color Hue and Saturation selector fields**: Color hue space can be used to select desired hue and with the slider user can fine tune the saturation.

**4.Hue, Sat, Val, Red, Green, Blue:** The numerical fields to input color values by numbers.

**5.Manual reflectance input:** Color reflectance values may be inputted manually.

Color information	Closest color		Chart Table
Color card:		Color information	Color reflectance
Monicolor Nova 720	•		- 120.0 b*
Search: L0			100.0
NOVA L016           NOVA L017           NOVA L018           NOVA L021           NOVA L021           NOVA L021           NOVA L021           NOVA L021           NOVA L023           NOVA L030           NOVA L031           NOVA L032           NOVA L033           NOVA L037           NOVA L038           NOVA L043           NOVA L043           NOVA L044           NOVA L050           NOVA L052           NOVA L058           NOVA L071           NOVA L072           NOVA L079           NOVA L079		Set RGB         R:       77       G:       155       B:       152         L*:       59,39       a*:       -25,00       b*:       -5,84         Thickness:       µm         Substrate:       µm         Measure date:       12.3.2012 12:10:41         Spectro:       1         Zone       1         CANTON JADE       2         Add name       ■ Delete name         Solorn       3       4	
Edit color	Clone color		0 400 460 520 580 640 700
Add color	Remove color		Reset

# In the **Color names** section, the following items available:

**1.Zone:** The drop down list to select the zone.

**2:**The text field to show color names for selected color code.

3.Add name: The button to add a color name.

**4. Delete name:** The button to delete a selected color name.

Color information	Closest color		Chart Table
Color card:		Color information	Color reflectance
Monicolor Nova 720	•		- 120.0 b*
Search: L0			100.0
NOVA L016	•		60.0
NOVA L017			F40.0
NOVA L018			a* = = 20.0
NOVA L021		Set RGB	-40.0 -20.0 - 20.0 40.0 60.0 80.0
NOVA L027			
NOVA L029		R: 77 G: 155 B: 152	-40.0
NOVA L030		L*: 59,39 a*: -25,00 b*: -5,84	
NOVA L031		Thickness: µm	RINF
NOVA L032		Put	
NOVA L033		Substrate:	100 -
NOVA L037		Measure date: 12.3.2012 12:10:41	90 -
NOVA L038		Spectro:	
NOVA L039			80 -
NOVA L043		Color names	70 -
NOVA L044		Zone	/0 -
NOVA L048		▼	60 -
NOVA L050		CANTON JADE	
NOVA L052		CANTON JADE	50 -
NOVA L058			40 _
NOVA L060			
NOVA L071			30
NOVA L072		Add name Selete name	
NOVA L077			20
NOVA L079		Color barcodes	10 -
NOVA L081		$\bigcirc$	
	•		
🕜 Edit color	Clone color		400 460 520 580 640 700
📥 Add color	Remove color		Reset Save

In the **Color barcodes** section, the following items available:

 $\ensuremath{\textbf{1.Color}}$  barcodes: The text field to show all bar codes for selected color code.

**2.** The button to add new bar code.

When the button is clicked, following options are available:

Color barcodes	? ×
Color barcodes	
Barcode	
40593272	
2 3 4 Add row Delete row Cancel	5 

- 1.Barcode: The text field for bar code.
- 2.Add row: The button to add new bar code.
- **3.Delete row:** The button to delete selected bar code.
- **4.Cancel:** The button to cancel all changes made.
- **5.OK:** The button to exit this window and save bar code information.

	Chart Table		Chart Table
Color information	Color reflectance	lor information	Color re
	nm RINF RB RW	2	<b>1</b> ) [120.0 b*
	400 22,92		100.0 - 80.0
	420 25,27		60.0
	440 25,2		+ 40.0 a* = = = = = = = = = = = = = = = = = = =
Set RGB	460 25,52	Set RGB	a* -40.0 -20.0 -20.0 -20.0 40.0 60.0 80.0
R: 155 G: 137 B: 137	480 24,99	R: 155 G: 137 B: 137	20.0 40.0
L*: 58,60 a*: 6,86 b*: 2,18	500 24,27	L* 58,60 a*: 6,86 b*: 2,18	
Substrate:	520 26,07	Th ckness: µm Supstrate:	100
Measure date: 4.4.2012 10:26:46	540 25,15	M asure date: 4.4.2012 10:26:46	90
Spectro:	560 24,28	Sp ectro:	80 -
Color names		C lor names	
Zone	580 26,14	Zo e	70 -
	600 32,08		60 -
	620 29,61		50 -
	640 32,92		40 -
	660 46,97		30 -
🗳 Add name 🦳 🤜 Delete name	680 62,23	Add name 🖉 🗢 Delete name	20 -
Color barcodes	700 71,63	olor barcodes	10
42502039		42502039	
			400 460 520 580 640 700
	🔅 Reset 🛛 🖹 Save		🔅 Reset 📕 Save

#### In the **Color reflectance** section, the following options are available:

1.Chart: View measured values as chart.

**2.Table:** View measured values as table.

When the color is not measured in to the database, the reflectance values over black substrate **(RB)** and over white substrate **(RW)** can be manually inputted in to the columns RB and RW in the table view or simply entering one set of values in to full hiding **(RINF)** column.

r card:	Color information	Color reflectance	
atec SF		nm RINF RB RW	
rch: test	Reflecta	nco	
TEST1	values black		
		lectance ues over ite	
	Substrate:	1.21.20	
	Measure date: -	500	
	Spectro:	510	
	spectro:	520	
	Color names	530	
	Zone	540	
	-	550	
		560	
		570	
		580	
		600	
	🖣 Add name 🛛 🤜 Delete name	610	
		620	
	Color barcodes	630	
		640	
		650	

#### In the **clone color** area, following options are available:

Color code:	NOVA L038	
	Color code name not unique	
Clone formula	is	
Product(s): S	ame as source color	
Connect to co	olor card(s)	
Color card(c):	Same as source color	

**1.Color code:** Cloned color must have a new unique name. All coloristic data is cloned

**2.Clone formulas:** If the check box enabled, and "same as source color" selected from the dropdown list, formulas associated to original code are cloned. Alternatively single product can be selected from the list.

**3.Connect to color card(s):** If the check box enabled, and "same as source color" selected from the dropdown list, new color will be cloned to same color cards as the original copy belong to. Alternatively single color card can be selected from the list.

Color information	Closest color		Chart	Table
Select target color		Color information	Color reflectance	
Card:			- 120.0 h*	
Monicolor Nova 720	-		F 100.0	
Color:			F80.0	
			F60.0	
NOVA F018			F 40.0	
Mer	3			
	4		a* -40.0 -20.0 20.0 40.0 40.0	50.0 80
Filter results by card:	and the second sec			
			-40.0	
	0.00			
NOVA F018 NOVA F016	0,00 ^	Target		Target Selecte
	1,04	R: 207 G: 226 B: 234	100	Selecte
NOVA H029	2.17			
NOVA 0018	2,30	L*: 88,81 a*: -5,03 b*: -5,82	90	
NOVA G017	2,30	Thickness: 0 µm		
Match 3-36-2	2,75	Substrate: -	80 -	
NOVA F031	2,97			
NOVA V018	3.02	Measure date: 12.3.2012 12:10:33	70 -	$\frown$
Match 3-	3.03	Spectro:		
	3,04		60 -	
	3,11	Color difference (dE2000): 1,04	50 -	
NOVA G030	3,24	Selected		
NOVA F021	3,46	R: 207 G: 228 B: 234	40 -	
NOVA V037	3,65			
NOVA F030	3,69	L*: 89,23 a*: -5,80 b*: -5,34	30 -	
ASF 1363	3,82	Thickness: 0 µm	20	
NOVA G021	3,87		20 -	
ASF 1353	3,97	Substrate: -	10	
NOVA V032	3,98	Measure date: 12.3.2012 12:10:33		
NOVA S029	4,01	Spectro:		
NOVA S032	4,08 +		400 460 520 580 64	40 7

In the **Closest color** section, the following options are available:

**1.Card:** Select the target color card from the dropdown list

**2.Color:** Select the color from the dropdown list or type in part of the color code to limit options

**3. Search:** Click the search button if search criteria given. Color list will display possible options.

4.Measure: Option to measure a target color if it's not known.

**5. Filter results by card:** Limit the search area to specific color card by selecting it from the dropdown list.

**6. Results** are shown in closest to match order. First color code followed by color difference.

#### Color information Closest color Chart Table Select target colo lor information Color reflectance Card: 100.0 Monicolor Nova 720 -80.0 Color: 60.0 NOVA F018 - 66 40.0 20.0 20.0 1 😸 Measure -20.0 40.0 60.0 Filter results by card -20.0 • 40.0 NOVA F018 NOVA F016 NOVA F016 NOVA F016 NOVA F017 Match 3-36 NOVA 6017 Match 3-36 NOVA 6017 Match 3-37 NOVA 6029 NOVA 6020 NOVA 6030 NOVA 6030 NOVA 6030 NOVA 6031 NOVA 6033 NOVA 6032 NOVA 5032 NOVA 5032 . 0.00 Target Target 1,04 G: 226 B: 234 R: 207 1,44 100 2,17 -5,03 b\*: -5,82 90 2,30 2 0 µr 2,79 80 2,86 Match 3-36-2 NOVA F031 2,97 70 Measure date: 12.3.2012 12:10:33 3.02 Match 3-33-2 3.03 Spectro: 60 3,04 Color difference (dE2000): 1,04 3,11 50 3 24 Selected 40 3.46 🖌 G: 228 B: 234 3,65 3 a\*: -5,80 b\*: -5,34 3,69 30 3.82 0 µr 20 3.87 Substrate: 3,97 10 3,98 Measure date: 12.3.2012 12:10:33 4.01 0 ectro: 580 640 4,08

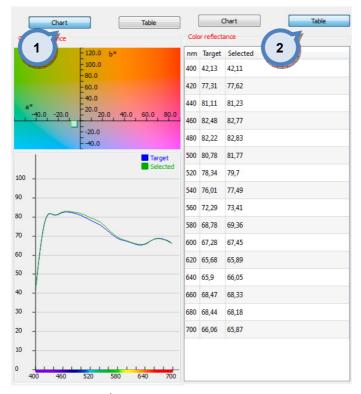
#### In the **Color information** section, the following options are available:

1.RGB representation of the target and selected color

2.Target: Coloristic values of the target

**3. Selected:** Coloristic values of the selected color.

In the Color reflectance section, the following options are available:



**1.Chart:** View measured values as chart.**2.Table:** View measured values as table.

# 3 Matching & Characterization

Matching & characterization page has three sub pages, where you can:

- Create characterization set
- > Set matching rules
- Match colors
- > Fill color values (RGBs) for visual presentation of the color

System Selection	
Monicolor 2401 🔹	
System overview	
Configuration	Matching & Characterization
Matching & Characterization	
Characterization set	
Matching rules	
Color matching	
Fill RGB(s)	
Management & Analysis	
Options	
Services & Replication	

# 3.1 Charaterization set

To get an overview on characterization status of whole system, navigate into the **Matching & Characterization** ⇒ **Characterization set** page.

Monicolo	or 2401 🔻	
	System overview	
	Configuration	]
Mato	ching & Characterization	Characterization
	Characterization set	set
	Set components	
	Proposer	
	Colorants	
	Bases	
	All	
	Base character set	
	Test	
	Matching rules	
	Color matching	
	Fill RGB(s)	
Ma	anagement & Analysis	]
	Options	]
S	ervices & Replication	]

In characterization set section you have five sub pages:

- > Set components,
- Proposer,
- ➢ Colorants,
- Bases
- ≻ All
- Base character set, and
- > Test.

With "traffic light" symbols, you can easily see which components are completed and which still need further work, in order to get matching fully working.

🤒 s6main, s6local - InnovaTint - LAB (Work	group Edition) v1.4.2013.1.2_nightly			
System Selection	Characterization set overview			
Monicolor 2401	Charterization set	Components in set	Colorants	Bases
System overview	INNOVATINT		۲	
Configuration				
Matching & Characterization		Traffic lig	hts	
Characterization set				
Set components				
Proposer				
Colorants				
Bases				
All				
Base character set				
Test				
Matching rules				
Color matching				
Fill RGB(s)				
Management & Analysis				
Options				
Services & Replication				

# 3.1.1 Set components

To create a set of colorants and products to be used in system creation, navigate into the **Matching & Characterization** ⇒ **Set components** page.

In set components page you have 2 tab pages:

- > Colorants, and
- > Products.

🤒 s6main, s6local - InnovaTint - LAB (Wor System Selection	rkgroup E Coloran	ts	C	Products		Edit Set	Delete Set
Monicolor 2401	Filter by system:	Colorants Ba	ases			Curser	- Delete Set
System overview	System name In use <not any="" in="" system=""></not>	Search:					
Configuration	Monicolor 2401	Colorant FT	In use	True specific grav	ity (kg / l)	Clone	-
Matching & Characterization		KS LS		1,31			
Characterization set				1,45			
Set components		MS	<b>V</b>	1,4			E
Proposer Colorants		MT PT	V V	1,35 1,3			
Bases		RS RT		1,26 1,8			
All		ST TT		1,68 1,35			
Base character set		US VT		1,25 1,85			
Test	Characterize:						
Matching rules	White characterizer:			•	Substrate:	r	
Color matching							🇱 Del
Fill RGB(s)	Black characterizer:			•	Reflection		
Management & Analysis	Product: Exterior 2401 AAE	BC		•	Internal: External: Us	e <= 0.040	0,600 🜩
Options	Base characterizer: C			•	@ Res		Save
Services & Replication					Res	set	Save

Characterization-set				Vew	set 🥖	Edit Set	🍔 Delet	e se
ilter by system:		Colorants B	ases 1					
System name	In use	Search:			3	4	_ 5	-
<not any="" in="" system=""></not>		Colorant	In use	True specific grav	ity (ka / l)	Clone		
Monicolor 2401	<b>V</b>	FT	V	1,34	(kg / l)	cione		-11
		KS	V	1,31				
		LS		1,39				
(	2	LT		1,45				
	and the second s	MM		1,17				
		MS	<b>V</b>	1,4				=
		MT	<b>V</b>	1,35				
		РТ	<b>V</b>	1,3				
		RS	<b>V</b>	1,26				
		RT		1,8				
		ST ST		1,68				
		TT		1,35				_
		US US	$\checkmark$	1,25				
		VT	$\checkmark$	1,85				
								-
Characterize:					Substrate:			
White characterizer:	хт			•	INNOVATINT			•
<u>.</u>					Ad	- ) [	🌋 Del	_
Black characterizer:	π			•			on of the second	
					Reflection			
Product: Exte	erior 2401 AAB	c		•	Internal:		0,600	*
					External: Use	<= 0,040	0,035	*
Base characterizer: C				•				
					Rese	t	E Save	

#### In the **Characterization set** window, the following options are available:

1.Characterization set: The drop down menu to select characterization set.

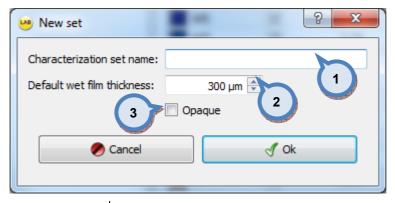
**2.Filter by system:** The table to show all systems, and **In use** check box to determine which systems are used in selected characterization set.

**3.New Set:** The button to create a new characterization set (name).

**4.Edit Set:** The button to edit a characterization set (name).

5.Delete Set: The button to delete a characterization set.

When the **New set** button is clicked, following window opens up:

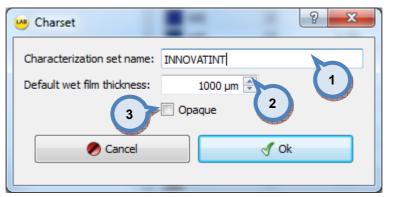


**1.Characterization set name:** The text field for the name of the characterization set.

**2.Default wet film thickness:** The text field for default film thickness used in characterization.

**3.Opaque:** When the check box is enabled, the characterization draw downs are treated as fully hiding. Otherwise measurements over black and substrate is used.

When the **Edit set** button is clicked, following window opens up:



**1.Characterization set name:** The text field for the name of the characterization set.

**2.Default wet film thickness:** The text field for default film thickness used in characterization.

**3.Opaque:** When the check box is enabled, the characterization draw downs are treated as fully hiding. Otherwise measurements over black and substrate is used.

available:						
haracterization-set		Г		<ul> <li>New Set</li> </ul>	🕜 Edit Set	🍀 Delete Set
ilter by system:		Colorants Ba	ises			
System name	In use	Search:				
<not any="" in="" system=""></not>			1	T	Class.	
Monicolor 2401	<b>V</b>	Colorant	In use	True specific grav 1	Clone	
10hic0101 2401	×	FT		1,34	P	
			V	1,31		
		2	$\checkmark$	1,39		
				1,45		
		MM		1,17		-
		MS	☑ 3	1,4	5	E
		MT		1 35	FT	
		PT	<b>V</b>	1,3 4	KS LS	E
		RS	<b>V</b>	1,26	LT	
		RT	<b>V</b>	1,8	MM	
		ST		1,68	MS	
		TT		1,35	PT	
		US		1,25	RS	-

In the **Colorants** tab page of the **Characterization set** window, the following options are available:

Characterize:		1 d	Substrate:		
White characterizer:	White characterizer: XT				
Black characterizer:	Π	•	Add Reflection	🆇 Del	
Product:	Exterior 2401 AABC	• I	internal:	0,600 🚖	
Base characterizer:	C		External: Use <= 0,040	0,035 🚖	

V

**1.Search:** The text field to enter search criteria to search for a colorant.

1,85

2.Colorant: The name or code of the colorant

VT

**3.In use:** When the check box is enabled, the colorant is used in characterization.

**4.True specific gravity:** The text field for actual density of colorant used in characterization draw downs. The unit of measure is kg/litre.

**5.Clone**: The drop down menu to select colorant to be used as a clone. With this selection, identical characterization information is used on the both colorants.

In the **Bases** tab page of the **Characterization set** window, the following options are available:

Characterization-set			•	New Set	🕜 Edit Set	🆇 Delete Set
Filter by system:		Colorants Bases				
System name	In use	Search:				
<not any="" in="" system=""></not>		Abstract base /	1		-	
Monicolor 2401		Product - base	Charact	, rg / l)	Clone	
		<ul> <li>AA</li> <li>E 2401 AABC -</li> <li>I AAC - A</li> <li>I AAC - A</li> <li>Interior 2401 AAC - A</li> <li>B</li> <li>Exterior 2401 AABC -</li> <li>Interior 2401 AABC -</li> <li>Interior 2401 AABC -</li> <li>Exterior 2401 AABC -</li> <li>Exterior 2401 AABC -</li> <li>Interior 2401 AABC -</li> <li>Interior 2401 AABC -</li> <li>Interior 2401 AABC -</li> <li>Interior 2401 AAC - C</li> </ul>	A V AA V A V B V B V C V C V	1,000 1,000 1,000 1,000 1,000 1,000	<no cloning=""> Exterior 2401 AABC - AA Exterior 2401 AABC - B Exterior 2401 AABC - C Exterior 2401 AAC - AA Exterior 2401 AAC - C Interior 240 AC - C Interior 240 AC - C Interior 240 AC - C</no>	E
Characterize:				4	strate:	
White characterizer:	хт				NOVATINT	<b>_</b>
Black characterizer:	π			▼ Refl	s Add	🇯 Del
Product: Ext	erior 2401 AABC			▼ Inte	rnal:	0,600 🜩
Base characterizer:				Exte	ernal: Use <= 0,040	0,035 🚖
					🤣 Reset	💾 Save

**1.Search:** The text field to enter search criteria to search for a product.

**2.Abstract base / Product - base:** The table to show all Abstract bases and products/bases associated to it.

**3.Characterize:** When the check box is enabled the base paint is used in characterization

**4.SG:** The text field for actual density of colorant used in the characterization draw downs. The unit of measure is kg/litre.

**5.Clone**: The drop down menu to select the base paint used as a clone.

NOTE: If the clone is selected on the Abstract base level, product used in characterization will share its KS-data with all the other products sharing the same Abstract base.

In the **Characterize** section of the **Characterization set** window, the following options are available:

Characterization-set:	INNOVATINT			-	New Set	🅜 Edit Set	🍔 Delete Set
Filter by system:		Colorants E	Bases				
System name	In use	Search:					
<not any="" in="" system=""></not>		Colorant	In use	True specifi	c gravity (kg / l)	Clone	*
Monicolor 2401		FT	V	1,34	e gravity (kg / i)	cione	
		KS		1,31			
		LS		1,39			
		LT		1,45			
		MM		1,17			-
		MS		1,4			≜ E
		MT	<b>V</b>	1,35		FT	
		PT	<b>V</b>	1,3		KS LS	=
		RS		1,26		LT	
		RT		1,8		MM	
		ST ST		1,68		MS	
		TT		1,35		PT	
		US		1,25		RS	-
		VT		1,85			-
Characterize:					Substrate:		
White characterizer:	π					INT	•
Black characterizer:	т			1	<u>,</u> =	Add	🇯 Del
				2	Reflection		
Product: Exter	rior 2401 AABC	4			✓ Internal:		0,600 ≑
Base characterizer:		· · ·	(	3		Use <= 0,040	0,035 🚖
Base characterizer:					• 0 F	Reset	📕 Save

**1.White characterizer:** The drop down menu to select the white colorant used in the characterization.

**2.Black characterizer:** The drop down menu to select the black colorant used in the characterization.

**3.Product:** The drop down menu to select the product used in the characterization.

**4.Base characterizer:** The drop down menu to select the base paint used in the characterization.

Characterization-set		r		<ul> <li>New Set</li> </ul>	🖋 Edit Set 🧳 Delete Se
Filter by system:		Colorants B	lases		
System name	In use	Search:			
<not any="" in="" system=""></not>	<b>V</b>				
Monicolor 2401			In use	True specific gravity (kg / l)	Clone
MONICOIDI 2401		FT		1,34	
		KS		1,31	
		LS		1,39	
		LT		1,45	
		MM		1,17	<u> </u>
		MS		1,4	FT FT
		MT		1,35	KS _
		PT		1,3	LS
		RS		1,26	LT MM
		RT		1,8	MS
		ST		1,68	MT
		TT		1,35	РТ
		US		1,25	RS 🔻
		VT		1,85	
Characterize:				Substra	te: 1
White characterizer:					
					🍓 Add 🛛 🌋 Del 🔪
Black characterizer:	π			2	
<u> </u>				Reflecti	on 3
Product: Ext	erior 2401 AAB	c		4 ternal	
					l: Use <= 0,040 0,035
Base characterizer: C					] [
				4	Reset 📑 Save

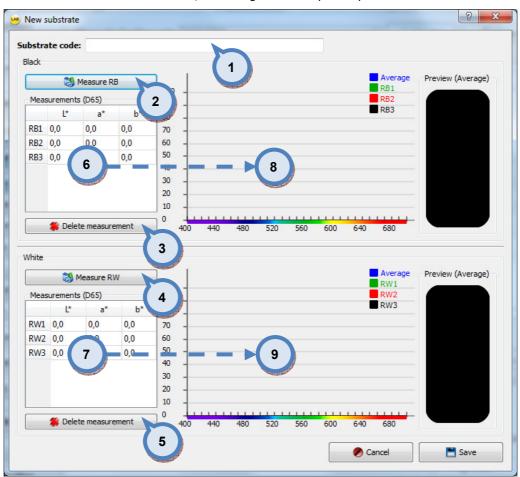
In the **Substrate** section of the **Characterization set** window, the following options are available:

**1.Substrate:** The drop down menu to select the substrate used in the characterization.

**2.Add:** The button to create a new substrate to be used in the characterization.

**3.Del:** The button to delete selected substrate.

**4.Reflection:** The text fields to adjust internal and external reflection values. The internal reflection value is typically between 0.6 and 0.46 (when default value is 0.6). The external reflectance value is typically between 0.03 and 0.04 (where the "USE" value proposes the value to be used. Based all measurement data). The change of these values required the KS data recalculation for the whole set.



#### When the **Add** button is clicked, following window opens up:

1.Substrate code: The text field for a substrate code or name.

2.Measure RB: The button to measure substrate over black background.

**3.Delete measurement:** The button to delete selected measurement from the field 6.

4.Measure RW: The button to measure substrate over white background.

**5.Delete measurement:** The button to delete selected measurement from the field 7.

**6.Measurements (D65):** The text field to display measurement values over black substrate.

**7.Measurements (D65):** The text field to display measurement values over white substrate.

8.Visual interpretation of values of the field 6.

9. Visual interpretation of values of the field 7.

### 3.1.2 Proposer

In the proposer window you will select can sizes for paint mixtures which you will use for making the characterization draw downs. From this page you can also see the total amount of the colorants and the base paints you need for making the needed draw downs.

System Selection	Characterization-	set: INNOVATI	INT	•		New Set	🔑 Edit Set	🍔 Delete
System overview	Mixture creation set	tings		Needed component amount for charact	erizatior	1		
	Edit co	mponent amount	ts	Code	In use	Mixture template	Proposed amount (ml)	Amount (ml)
Configuration	Minimum amount:		0,40 ml ≑	Exterior 2401 AABC - C (Bootstrap)	V	Default	0	0
	Default wet film thid	mess:	1000 µm 🖨	TT (Bootstrap)	V	Default	0	0
& Characterization	Create bootstra	mixtures		XT (Bootstrap)	<b>V</b>	Default	0	0
	Create colorant			FT	<b>V</b>	Default	0	0
terization set				KS	<b>V</b>	Default	0	0
	Create base mix	tures		LS	V	Default	0	0
omponents	Mixture can sizes:			LT LT	V	Default	0	0
oser	Can size	In use		MM	<b>V</b>	Default	0	0
ts	0.1			MS	1	Default	0	0
		-		MT	V	Default	0	0
	0.125			PT	V	Default	0	0
	0.15			RS	V	Default	0	0
				RT	<b>V</b>	Default	0	0
et	0.2			ST ST	V	Default	0	0
	0.25 1			US	<b>V</b>	Default	0	0
	0.21			T VT	V	Default	0	0
les	0.3 1			ZT	V	Default	0	0
				Exterior 2401 AABC - AA	V	Default	0	0
hing				Exterior 2401 AABC - B	V	Default	0	0
)				Exterior 2401 AAC - AA	V	Default	0	0
				Exterior 2401 AAC - C	V	Default	0	0
				Interior 2401 AABC - AA	V	Default	0	0
k Analysis				Interior 2401 AABC - B	V	Default	0	0
ptions	📥 Add 🛛 Cl	ear selections	🇱 Del		Pro	posed mixtures		

Edit con	nponent amounts		Code	In use	Mixturemplate	Pro,	Amount (m)
Minimum amount:		0,40 ml 🖨				amount (ml)	
			Exterior 2401 AABC - C (Bootstrap)		Default	0	0
Default wet film thickr	ness:	1000 µm 🚖	TT (Bootstrap)		Default	0	0
🔽 Create bootstrap	mixtures		XT (Bootstrap)	<b>V</b>	Default	0	0
Create colorant m	ixtures		FT	<b>V</b>	Default	0	0
Create base mixtu	ires		KS		Default	0	0
Mixture can sizes:			LS	<b>V</b>	Default	0	0
Can size	In use	_		<b>V</b>	Default	0	0
			MM	<b>V</b>	Default	0	0
0.1			MS	<b>V</b>	Default	0	0
0.1251			MT	<b>V</b>	Default	0	0
			PT	<b>V</b>	Default	0	0
0.15			RS	<b>V</b>	Default	0	0
0.21			RT	<b>V</b>	Default	0	0
0.21		_	ST	<b>V</b>	Default	0	0
0.25 1			US	<b>V</b>	Default	0	0
0.31			VT	<b>V</b>	Default	0	0
0.51			ZT	<b>V</b>	Default	0	0
			Exterior 2401 AABC - AA	<b>V</b>	Default	0	0
			Exterior 2401 AABC - B	<b>V</b>	Default	0	0
			Exterior 2401 AAC - AA	<b>V</b>	Default	0	0
			Exterior 2401 AAC - C	<b>V</b>	Default	0	0
			Interior 2401 AABC - AA	<b>V</b>	Default	0	0
			Interior 2401 AABC - B	<b>V</b>	Default	0	0

**1.Characterization set:** The drop down menu to select the characterization set.

**2.New Set:** The button to create a new characterization set (name).

**3.Edit Set:** The button to edit a characterization set (name).

4.Delete Set: The button to delete a characterization set.

**5.Mixture creation settings:** The settings to create needed mixtures for characterization.

**6.Needed component amount for characterization:** Needed component amounts for the characterization and the mixture template selected component uses.

In the **Mixture creation settings** section of the **Proposer** window, the following options are available:

Edit co	omponent amounts	Code	In use	Mixture template	Proposed amount (ml)	Amount (m
m amount:	0,40 n	Exterior 2401 AABC - C (Bootstrap)	<b>V</b>	Default	0	0
Default wet film thic	kness: 1000 µr	m 🔿 (Bootstrap)	<b>V</b>	Default	0	0
Create bootstra		2 (Bootstrap)	<b>V</b>	Default	0	0
			<b>V</b>	Default	0	0
Create colorant		3 KS	<b>V</b>	Default	0	0
Create base mix	tures	LS	<b>V</b>	Default	0	0
lixture can sizes:		LT	<b>V</b>	Default	0	0
Can size	In use	MM	<b>V</b>	Default	0	0
0.1		MS	1	Default	0	0
		MT	<b>V</b>	Default	0	0
0.1251	8	PT	<b>V</b>	Default	0	0
0.151		RS	<b>V</b>	Default	0	0
		RT	<b>V</b>	Default	0	0
0.21		ST ST	<b>V</b>	Default	0	0
0.251		US	<b>V</b>	Default	0	0
		VT	<b>V</b>	Default	0	0
0.3 I		ZT	1	Default	0	0
		Exterior 2401 AABC - AA	<b>V</b>	Default	0	0
		Exterior 2401 AABC - B	<b>V</b>	Default	0	0
		Exterior 2401 AAC - AA	<b>V</b>	Default	0	0
		Exterior 2401 AAC - C	1	Default	0	0
		Interior 2401 AABC - AA	V	Default	0	0
		Interior 2401 AABC - B	1	Default	0	0
Add C	lear selections	-		posed mixtures		

1.Edit component amounts: The button to edit component amounts.

**2.Minimum amount:** The text box to enter value for lowest allowed component amount. The unit of measure is millilitres.

**3.Default wet film thickness:** The text box to enter value for default film thickness. The unit of measure is micrometres.

**4.Create bootstrap mixtures:** When check box is enabled, bootstrap mixtures (the mixtures for the characterization white and the black) are created.

**5.Create colorant mixtures:** When check box is enabled, the colorant mixtures are created.

**6.Create base mixtures:** When check box is enabled, the base paint mixtures are created.

7.Can size: The list of can sizes available.

**8.In use:** When the check box is enabled, selected can size is used for the mixtures.

9.Add: The button to add a new can size.

**10.Defaults:** The button to clear can size selection.

**11.Del:** The button to delete selected can size.

Component type	Black	White	Colorant
Bootstrap Colorants	0.0 %	0.0 %	10.0 %
Default	0.0 %	1.0 %	9.0 %
Default for light colorants Default for black colorants	0.0 %	2.0 %	8.0 %
Default for white colorants Default for dark colorants	0.0 %	3.0 %	7.0 %
▷ Bases	0.0 %	5.0 %	5.0 %
	0.2 %	0.0 %	9.8 %
2	el 😽 Add	4 Defaults	3 * Del
🔸 Add 🋛 🦷 🖉	el Add		

When **Edit component amounts** button is clicked, the following options are available:

**1.Component type:** The list of component types (bootstrap, colorants, and bases) with the mixture templates. To view mixtures, select a template with left hand side mouse button.

2.Add, Del: The buttons to add and delete a mixture template.

When the Add button is clicked, the following window is opened up. Type in the name for the template into the text field.

Mixture	8 ×
Mixture template name	2:
ОК	Cancel

**3.**The values for the black, white, and colorant in the mixtures of the selected template.

4.Add, Defaults, Del: The buttons to modify the mixtures.

Add: The button to add new mixture into the selected template.

**Defaults:** The button to restore default mixture values into the selected template.

**Del:** The button to delete selected mixture in the selected template.

## 3.1.3 Colorants

On the colorants section you have 4 tab pages: Colorant characterization, Sample results, KS analysis, and Engine results.

System Selection	Characterization-set: INNOVATINT		▼ New Set	🌲 Delete S
Totabase overview	Colorant characterization Sample results	KS Analysis Engine results		
Configuration	WS         YH3         ZS           WX10         YH7         YH7	AS B	BH3     BH3     BH6     BH5     BH4     BKP     BM7     BM7	
latching & Characterization	WX2 🗼 📕 YS 🗼	AX 📦 🔳 B-EU	BL4 🗼 EMV	BX10
Characterization set	Colorant:	White: KU	Black: XS Base:	с
Set components	True specific gravity: 1,22 kg / l	1,92 kg / l	1,45 kg / l	1,21 kg
Proposer	Mixtures		Change mixture size	
Colorants	Sample name 1 C/BH3 0.15%	In use Measured	0.1	- 🌗 🌲
Bases	2 C/BH3 0.3%	V Yes	Current mixture	All mixtures
	3 C/BH3 0.6%	V Yes		Airmixtures
All	4 C/BH3 1.25%	V Yes	Wet film thickness:	Measure
Base character set	5 C/BH3 2.5%	V Yes	Mixture volume:	Con mediate
	6 C/BH3 5%	V Yes	=	
Test	7 C/BH3 7.5%	Ves Ves		
Matching rules	8 C/BH3 7%	Yes		
	9 C/BH3 8%	Yes		
Color matching	10 C/BH3 9%	Yes		
-#-	11 C/BH3 b1 0.8%	Yes		
Fill RGB(s)	12 C/BH3 b2 1.5%	Ves Ves		
	13 C/BH3 b3 3%	Yes		
Management & Analysis	14 C/BH3 b4 0.2%	Ves		
,	15 C/BH3 mt 10%	Yes	Used spectro - measure date:	
Options	16 Monicolor E BH3 0.1477% 1.00	V Yes	•	

In <b>a</b>	ll tab	pages,	the	following	basic	options	are	available:
-------------	--------	--------	-----	-----------	-------	---------	-----	------------

ira	cterization-set: INNOVATINT		h	•	New Set 🖉 Edit S	et 🍂 Delete S :
iora	nt characterization Sample results	KS Analysis	I 1 Fults		2 3	4
Stat	JS					
	🛾 WS \Rightarrow 🦲 YH3 🍑 🚺 ZS	AG	AXX 🔵		ВНЗ 🕢 ВН6 🕘 🚺	BLS 🕘 📕 BS
	WX10 🕥 YH7 🕥	AS	B	0	BH4 🕘 BKP 🌒	BM7 🕘 🔳 BX
	WX2 🔘 📕 YS 🔘	AX		0	BH5 🔊 🛛 BL4 🌒	BMV
•						4
olor	ant: BH3 🔻	White	: KU		Black: XS	Base: C
Je s	pecific gravity: 1,22 kg / l		1,92 kg / l		1,45 kg / l	1,21 kg /
	ures		2/22.1971		1,10,1971	2/22/19/
	Sample name	In use	Measured		Change mixture size	
1	C/BH3 0.15%	In use	Yes	-	0.11	- 🍓 🌒
2	C/BH3 0.3%		Yes	-11		
2	C/BH3 0.6%	V	Yes	- 1	Current mixture	All mixtures
4	C/BH3 1.25%	<b>V</b>	Ves	-11	Wet film thickness:	
5	C/BH3 2.5%	v	Yes		Mixture volume:	Measure
6	C/BH3 5%		Yes	=		
7	C/BH3 7.5%	<b>v</b>	Ves			
8	C/BH3 7%		Yes			
9	C/BH3 8%		Yes			
10	C/BH3 9%		Yes			
11	C/BH3 b1 0.8%		Yes			
12	C/BH3 b2 1.5%	<b>V</b>	Yes			
13	C/BH3 b3 3%		Yes			
	C/BH3 b4 0.2%		Yes			
14			Yes		Used spectro - measure date:	
	C/BH3 mt 10%					

1.Characterization set: The drop down menu to select characterization set.

2.New Set: The button to create a new characterization set (name).

**3.Edit Set:** The button to edit a characterization set (name).

4.Delete Set: The button to delete a characterization set.

In **Colorant characterization** tab page of the **Colorants** page, the following options are available:

olora	Int characterization Sample results	KS Analysis	Engine results		
Stat	us				
	ws 🥥 🦰 YH3 🕥 🔳 ZS	AG	AXX (	ВНЗ 🕘 ВН6	🕘 📕 BL5 🕘 📕 BS
	WX10 🔘 YH7 🍚			вна вкр	BM7   ■ BX
	WX2 🕥 📕 YS 🥥	AX	🔵 📕 B-EU 🧯		BMV      BX10
•		111			• • •
olor	ant:	White	: KU	Black: XS	Base: C
	pecific gravity: 1,22 kg / l		1,92 kg / l	1,45 kg	1,21 km/l
-					
Mixtu	2		3	Change mixture size	
	Sample name	In use	Measured	0.1	
1	C/BH3 0.15%		Yes		
2	C/BH3 0.3%		Yes	Current mixture	All mixtures
3	C/BH3 0.6%	<b>V</b>	Yes	Wet film thickness:	µm ▲
4	C/BH3 1.25%		Yes		Measure
5	C/BH3 2.5%	<b>V</b>	Yes	Mixture volume:	
6	C/BH3 5%		Yes		
7	C/BH3 7.5%	<b>V</b>	Yes		
8	C/BH3 7%		Yes		
9	C/BH3 8%		Yes		
10	C/BH3 9%		Yes		
11	C/BH3 b1 0.8%		Yes		
12	C/BH3 b2 1.5%		Yes		
13	C/BH3 b3 3%		Yes		
14	C/BH3 b4 0.2%		Yes		
-	C/BH3 mt 10%		Yes	Used spectro - measure	date:
15		<b>V</b>	Yes		

**1.Status:** The symbol table with status indicator (traffic lights).

**2.Colorant:** The drop down menu to select colorant, and **True specific gravity** text field to enter real density used on characterization draw downs.

**3.White:** The indicator field for used characterization white and **True specific gravity** text field to enter real density used on characterization draw downs.

**4.Black:** The indicator field for used characterization black and **True specific gravity** text field to enter real density used on characterization draw downs.

**5.Base:** The indicator field for used characterization base and **True specific gravity** text field to enter real density used on characterization draw downs.

In the left hand side of the **Mixtures** section of the **Colorant characterization** tab page of the **Colorants** page, the following options are available:

haracter	rization-set: INNOVATINT		🔹 🕞 New Set 🔗 E	dit Set 🏾 🏶 Delete Set
Colorant ch	haracterization Sample results KS	Analysis Engine results		
Status				
) 🔳 w	vs 🕥 📒 YH3 🕥 📕 ZS 🥥	AG 🕘 🗛 AXX	🕘 📕 ВНЗ 🌒 🛛 ВНБ 🕥	BL5 🕥 📕 BS
W	VX 10 🕥 YH7 🥥	AS 🕘 🖪 B	BH4  BH4  BKP	BM7 🕘 🔳 BX
W	VX2	AX	BH5 BL4 OR	BMV ( BX10
4				•
				F
Colorant:	BH3 -	White: KU	Black: XS	Base: C
True specifi	fic gravity: 1,22 kg / l	1,92 kg / l	1,45 kg / l	1,21 kg / l
Mixtures				
Sar	mple name	In use Measured	Change mixture size	
1 C/E	BH3 0.15%	Yes	0.11	
2 C/E	BH3 0.3%	Ves	Current mixture	All mixtures
3 C/E	BH3 0.6%	Ves		
4 C/E	BH3 1.25%	V Yes	Wet film thickness:	µm 🚖
5 C/E	BH3 2.5%	2 Yes 3	Mixture volume:	
6 C/E	BH3 5%	Ves Ves		
7 C/E	BH3 7.5%	Ves		
8 C/E	BH3 7%	Yes		
9 C/E	BH3 8%	Yes		
10 C/E	BH3 9%	Yes		
11 C/E	BH3 b1 0.8%	Yes		
12 C/E	BH3 b2 1.5%	Ves Ves		
13 C/E	BH3 b3 3%	Yes		
14 C/E	внз ь/	Ver		
15 C/E	внз 4 5	6	Used spectro - measure date:	
16 Mo	onicol	V Yes	-	
Se Add	i mixture Export 🔻	🇱 Delete mixtı	Save	Calculate KS

**1.Sample name:** The table to show all mixtures based on colorant selection on the Colorant section.

**2.In use:** When the check box is enabled, selected mixture is used in the characterization.

**3.Measured:** When Not measured text is visible, selected mixture is not measured. The text is chanced to Measured after measurement of this mixture is done.

**4.Add mixture:** The button to add a new mixture.

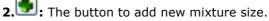
**5.Export:** The button to export mixture values into the text file or into the pdf file.

**6.Delete mixture:** The button to delete selected mixture.

In the right hand side of the **Mixtures** section of the **Colorant characterization** tab page of the **Colorants** page, when a mixture is selected from **Mixtures table**, the following options are available:

olora	nt characterization Sample results K	S Analysis	Engine results		
Stat	us				
	🛛 WS 🔘 📒 YH3 🍥 📕 ZS 🥥	AG	AXX 🔵	BH3 🔘 BH6	5 🚇 📕 BL5 🚇 📕 BS
ir	WX10 YH7 O	AS		BH4 🕘 BKF	BM7 📦 🔳 BX
	WX2 🔘 📕 YS 🥥	AX	B-EU Ø	BH5 🕘 BL4	BMV () BX10
•		III			•
olor	ant: BH3 🔻	White	: KU	Black: XS	Base: C
ue s	pecific gravity: 1,22 kg / l		1,92 kg / l	1,45 kg / l	ka/
Mixt	ures				1 2 2
	Sample name	In use	Measured ^	Change mixture size	2 3
1	C/BH3 0.15%		Yes	٢.1١	
2	C/BH3 0.3%	<b>V</b>	Yes	Current mixture	6 All mixtures
3	С/ВНЗ 0.6%		Yes	-	
4	C/BH3 1.25%	<b>V</b>	Yes 4	Wet film thickness:	250 µm 🗧 🚺 Measure
5	C/BH3 2.5%	<b>V</b>	Yes 4	Mixture volume:	100 ml
6	C/BH3 5%	<b>V</b>	Yes 👘	Proposed	Actual
7	C/BH3 7.5%		Yes		amount (g) 7
8	C/BH3 7%		Yes	BH3 0.73	0.73
	C/BH3 8%		Yes		108.9
9	C/BH3 9%		Yes	C 108,9	100,9
9 10	C/BH3 b1 0.8%		Yes		
-	C/BH3 DI 0.8%	<b>V</b>	Yes	9 1	0 ( 11 )
10 11	C/BH3 b2 1.5%		N N		and the second se
10 11			Yes		
10 11 12	C/BH3 b2 1.5%		Yes		12
10 11 12 13	C/BH3 b2 1.5% C/BH3 b3 3%		_	Used spectro - measure	date: 12

**1.Change mixture size:** The drop down menu to snow all mixtures based on colorant selection on Colorant section.



. The button to delete selected mixture size.

**4.Current mixture:** The button to set can size settings for the selected mixture after changing can size from the drop down list (1).

**5.All mixtures:** The button to set can size settings for all of the mixtures after changing can size from the drop down list (1).

**6.Wet film thickness:** The selector to set used film thickness of the drawdowns.

**7.Mixture volume**: The text field to display total mixture volume in millilitres.

**8.Measure:** The button to measure selected mixture. This button is active when actual amounts are set into the field (11).

9.Code: The field to display component code of the mixture.

**10.Proposed amount(g):** The field to display component amount on proposed mixture.

**11.Actual amount(g):** the field to enter actual amount used on the mixture.

**12.Used spectro – measure date:** The field to display spectrophotometer model and date of measurement.

**13.Calculate K/S:** The button to calculate K/S values (drawdown measurements needs to be done to activate this button.)

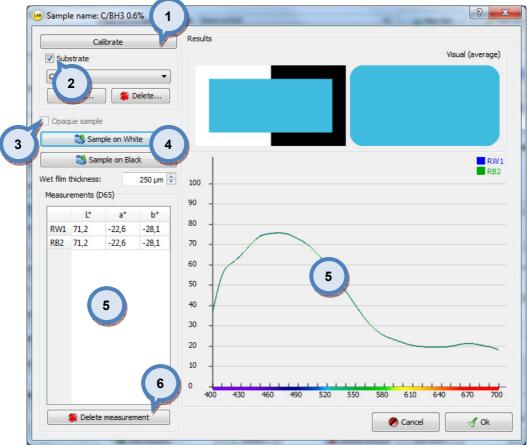
Add can size

 $\ensuremath{\textbf{1.Cansize code:}}$  The text field to enter the code or the name for the can size.

2.Nominal amount (ml): The selector to set total volume of the can.

# When the 💽 button is clicked, following window opens up:

When **mixture is selected** and **actual amount for base paint** is entered, and **Measure** button is clicked, following window opens up:



1.Calibrate: The button to calibrate the spectrophotometer.

2.Subsrate The check box to enable substrate selector section.

**3.Opaque sample:** When check box is enabled, drawdown is treated as fully hiding, and measurement over white substrate is required (the Sample on white button is enabled). When the check box is not enabled, the draw down is treated as translucent and measurements over both white and black are required (the Sample on white and the Sample on black buttons are enabled).

**4.Measure buttons:** The buttons to measure drawdowns with the spectrophotometer.

**5.Results:** The colour box and the graph to visualize measurements.

**6.Delete measurement:** The button to delete selected measurement from the list (4).

In the Sample results tab page, the actual measurements are presented against the theoretical reflectance values that are calculated backwards from the KS data.

Colo	orant characterization Sample res	sults	KS Analy	sis	Engine resu	ilts	(	10		
am	nples 2	Y <sub>3</sub>	Y	4	5	Select cha	rt type:		Sample on white	
		de	E	C	In use	Chart	Table			
		White	Black	graph	inuse	1				
1	C/BH3 0.15%	0,17	0,18				9			
2	C/BH3 0.3%	0,41	0,40	<b>V</b>	<b>V</b>	100 -	3			
3	C/BH3 0.6%	1.58	0,59	<b>V</b>	<b>V</b>		And the owner of the			
4	С/ВНЗ 1.25%	75	0,75	<b>V</b>	<b>V</b>	90 -				
5	C/BH3 2.5%	0,78	0,77		<b>V</b>					
6	C/BH3 5%	0,75	0,78	V	<b>V</b>	80 -				
7	C/BH3 7.5%	1,20	1,20	<b>V</b>	V			10		
8	C/BH3 7%	1,08	1,08			70 -	110			
9	C/BH3 8%	1,39	1,38					111		
10	C/BH3 9%	1,84	1,80			60 -		111		
11	C/BH3 b1 0.8%	0,62	0,63						(	
12	C/BH3 b2 1.5%	0,64	0,68	V	<b>V</b>	50 -		8		
13	C/BH3 b3 3%	0,88	0,84						1	
14	C/BH3 b4 0.2%	0,64	0,64			40 -		17	11	
15	C/BH3 mt 10%	0,69	0,63			20		1 1	11	
16	Monicolor E BH3 0.1477%	0,58	0,57		<b>V</b>	30 -	10		11 -	240
17	Monicolor E BH3 0.3118%	0,42	0,39		1	20 -				3.500
18	Monicolor E BH3 0.6315%	0,50	0,47		<b>V</b>	1 1	1	//		4 500
19	Monicolor E BH3 1.2631%	0,56	0,52		<b>V</b>	10	1	11		-
20	Monicolor E BH3 5.0093%	0,69	0,65		<b>V</b>				-	22000
21	Monicolor E BH3 9.4911%	-	0,81		<b>v</b>	0		11		
22	6 Color E BH3 9.9983%	7	0,78			400	0 440 480	And Terrate and Party	<b>5</b> 60 600	12
	de White: 0,81		MS dE bla	a			alculate reflecta		2 -	-calculate

In the **Sample results** section, the following options are available:

1.Samples: The table to display mixtures.

**2.dE White:** Sample measurement over white substrate vs. theoretical measurement

**3.dE Black:** Sample measurement over black substrate vs. theoretical measurement

4.Draw graph: Items to be displayed

5.In use: Items used in calculations (to define KS-values)

**6.RMS dE white:** 'Root mean square' of white measurement vs. theoretical measurements

**7.RMS dE black: '**Root mean square' of white measurement vs. theoretical measurements

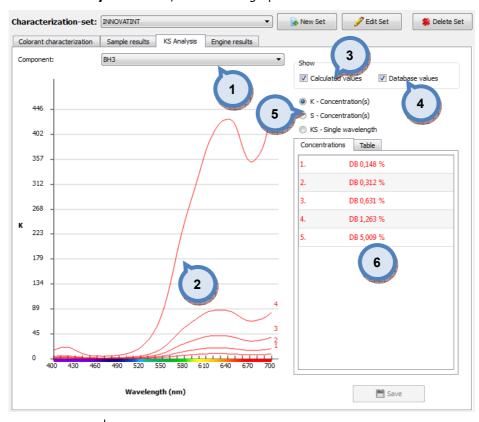
**8.Sample reflectance(real/theoretical):** Selected sample reflectance displayed.

9.Select chart type: The chart or table display of the measured mixtures.

**10.Information type:** Dropdown list to select type of information shown below. Options are; sample on white, sample on black and sample on white/black.

11.Calculate reflections: The button to calculate reflectance values.

**12.Re-calculate:** The button to re-calculate reflectance values for display only. This does not overwrite previous calculation values.



#### In the **KS Analysis** section, the following options are available:

1.Component: The drop down list to select the component to display.

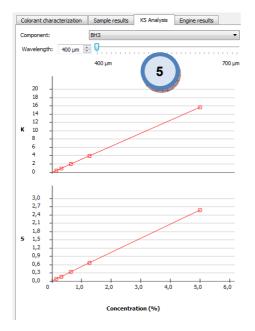
2.Table: The chart display of the measured mixtures.

**3.Calculated values:** When check box is enabled calculated values are showed on chart.

**4.Database values:** When check box is enabled database values are showed on chart. The database values exist when previous characterization data is available in the database.

**5.K, S, KS:** The radio buttons to select which component is showed on the graph. If KS single wavelength is selected, wavelength can be changed from the selector on the right.

**6.Concentrations/Table:** The table to display mixture information.



In the **Engine results** section, the following options are available:

Characterization-set:	INNOVATINT		•	🕞 New Set	🥜 Edit Set	🆇 Delete Set
Colorant characterization	Sample results KS An	alysis Engine results				
Colorant characterization	Sample results KS An	laiysis Engine results				

**1.**The text field to display the log file of the characterization engine.

### 3.1.4 Bases

In the **Bases** section you have 4 tab pages: base characterization, Sample results, KS analysis, and Engine results.

ita	tus					
	Ext Latex NoTop 1000 (5) - D	Ext	: Latex NoTop 1000 (5) - P	INNOVATINT -	AA 🔵 INNO	VATINT - ED 🥥
	Ext Latex NoTop 1000 (5) - ED	Ext	Latex NoTop 1000 (5) - TR	INNOVATINT -	B 🕘 INNO	VATINT - M 🥥
	Ext Latex NoTop 1000 (5) - M		NOVATINT - A	INNOVATINT -	D 🔵 INNO	VATINT - P 🥘
•			m			•
bd	luct: Ext Latex NoTop 1000 (5)	▼ Base	P •	White:	KU	Black: XS
e	specific gravity:		1,38 kg / l	1,9	2 kg / l	1,45 kg
lix	tures					
	Sample name	In use	Measured	Change mixture size		- 4
1	P mt		Ves 1	0.11		
2	P XS1		Yes	Current mixture		All mixtures
3	P XS 2		Yes	Wet film thickness:	250 µm 🚔	Measure
4	P XS 3		Yes	Mixture volume:	191 ml	
				Code Proposed		
5	P XS 4		Ves	P	262,769	
	P XS 5		Yes	xs	0.910382	
6	- /35					
	P XS 6		Yes			

ase cl				J 📑 Ne	w Set	🖋 Edit Set	🍔 Delete Se
<b>CI</b>	haracterization Sample Result	s KS Analysis	Engine 1		2	3	
Statu							
	Ext Latex NoTop 1000 (5) - D	3			NOVERNIAN - AA		ATINT - ED
	Ext Latex NoTop 1000 (5) - ED			=	IOVATINT - B		VATINT - M
	Ext Latex NoTop 1000 (5) - M		/ATINT - A (		IOVATINT - D		VATINT - P 🜘
•			III				4
rodu	ct: Ext Latex NoTop 1000 (5)	▼ Base: F	•		White: K	U	Black: XS
ue sp	pecific gravity:	[	1,38 kg / l		1,92 kg	g / I	1,45 kg / l
Mixtu	ires						
5	Sample name	In use	Measured		nixture size		
1 F	<sup>o</sup> mt	<b>J</b>	Yes	0.11			- 🛃 🏽
2 F	VXS1		Ves 1	Current	nixture		All mixtures
	P XS 2		Yes	Wet film	thickness:	250 µm 🚔	<b>*</b>
			res	Mixture \	olume:	191 ml	👹 Measure
4 F	P XS 3		Yes	Code	Proposed	Actual	
5 F	XS 4	<b>v</b>	Yes	Code	amount (g)	amount (g)	
6 F	XS 5	<b>V</b>	Yes	P		262,769	
7 0	2 XS 6		Yes	XS XS		0,910382	
				🗌 КО			
8 F	P XS 7		Yes				

In **all tab pages**, the following basic options are available:

1.Characterization set: The drop down menu to select characterization set.

**2.New Set:** The button to create a new characterization set (name).

**3.Edit Set:** The button to edit a characterization set (name).

4.Delete Set: The button to delete a characterization set.

In the Base characterization tab	page,	the following	options are	available:
----------------------------------	-------	---------------	-------------	------------

duct: Ext Latex NoTop 1000 (5)   specific gravity:   1,38 kg   3   1,92 kg   1,1   1,92 kg   1,1 </th <th>atus</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	atus						
Ext Latex NoTop 1000 (5) - M       INNOVATINT - A       INNOVA       INNOVATINT - P         duct:       Ext Latex NoTop 1000 (5)       Base:       P       III       IIII       INNOVATINT - P         duct:       Ext Latex NoTop 1000 (5)       Base:       P       IIIII       IIIIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Ext Latex NoTop 1000 (	5) - D 🕘 🔳	xt Latex NoTop 1000 (5) - P		AA - TNITAVC		/ATINT - ED 🜘
Image: Second	Ext Latex NoTop 1000 (	5) - ED 🥥 🛛 E	xt Latex NoTop 1000 (5) - TI				/ATINT - M 🌘
bduct: Ext Latex NoTop 1000 (5)   Base:   P   1,38 kg   1,92 kg <tr< td=""><td>Ext Latex NoTop 1000 (</td><td>5) - M 🥥 🛛 I</td><td>NNOVATINT - A</td><td></td><td>DVA 1</td><td></td><td>/ATINT - P 🜘</td></tr<>	Ext Latex NoTop 1000 (	5) - M 🥥 🛛 I	NNOVATINT - A		DVA 1		/ATINT - P 🜘
Sample name     In use     Measured       1     P mt     Ves       2     P XS1     Yes       3     P XS2     Yes       4     P XS3     Yes       5     P XS4     Yes       6     P XS5     Yes       7     P XS6     Yes	•		III		a second s		۲
Sample name     In use     Measured       1     P mt     Ves       2     P XS1     Ves       3     P XS2     Yes       4     P XS3     Yes       5     P XS4     Yes       6     P XS5     Yes       7     P XS6     Yes	oduct: Ext Latex NoTop 10	00 (5) 🔹 🔻 Bas	e: P		White: K		Black: XS
Sample name     In use     Measured       1     P mt     Ves       2     P XS1     Ves       3     P XS2     Ves       4     P XS3     Ves       5     P XS4     Ves       6     P XS5     Ves       7     P XS6     Ves	e specific gravity:		1,38 kg	3	1,92 kg	4	1,45 k
Sample name     In use     Measurea       1     P mt     Ves       2     P XS 1     Ves       3     P XS 2     Ves       4     P XS 3     Ves       5     P XS 4     Ves       6     P XS 5     Ves       7     P XS 6     Ves	ixtures						
1 P mt     ✓     Yes       2 P XS1     ✓     Yes       3 P XS 2     ✓     Yes       4 P XS 3     ✓     Yes       5 P XS 4     ✓     Yes       6 P XS 5     ✓     Yes       7 P XS6     ✓     Yes	Sample name		Measured		xture size		- 4
2 P XS1     Yes       3 P XS2     Yes       4 P XS3     Yes       5 P XS4     Yes       6 P XS5     Yes       7 P XS6     Yes	1 P mt		Yes		vture		
3     P XS 2     Yes       4     P XS 3     Yes       5     P XS 4     Yes       6     P XS 5     Yes       7     P XS 6     Yes	2 P XS 1		Yes				Airmixtures
4     P XS 3     Ves       5     P XS 4     Image: Code and the second sec	3 P XS 2		Yes				🚳 Measure
5     P XS 4     Image: Sector of the	4 P XS 3		Ves	Mixture vo			
P XS 6         V         Yes           7         P XS 6         V         Yes	5 P XS 4		Yes	Code			
7         P XS 6         Image: Constraint of the second se	5 D XS 5		Ver	P		262,769	
				XS		0,910382	
8 P XS 7 Yes				🗌 КО			
			Yes				

**1.Status:** The symbol table with status indicator (traffic lights).

**2.Product:** The drop down menu to select the product, and **True specific gravity** text field to enter real density used on characterization draw downs.

**3.Base:** The drop down menu to select the base, and **True specific gravity** text field to enter real density used on characterization draw downs

**4.White:** The indicator field for used characterization white and **True specific gravity** text field to enter real density used on characterization draw downs.

**5.Black:** The indicator field for used characterization black and **True specific gravity** text field to enter real density used on characterization draw downs.

In the left hand side of the **Mixtures** section, the following options are available:

ase characterization Sample	Results KS Anal	ysis Engine results				
Status		,				
Ext Latex NoTop 1000 (5)	-D 🔵 Ex	t Latex NoTop 1000 (5) - P		) AA - TNITAVC		ATINT - ED 🕘
Ext Latex NoTop 1000 (5)	-ED 🔵 Ex	t Latex NoTop 1000 (5) - TR		OVATINT - B (		ATINT - M 🜘
Ext Latex NoTop 1000 (5)	-M 🔵 IN	NOVATINT - A		OVATINT - D (		ATINT - P
•		III				F
roduct: Ext Latex NoTop 1000	) (5) <b>•</b> Base	: P 🔻	)	White: KU		Black: XS
ue specific gravity:		1,38 kg / l		1,92 kg /	/1	1,45 kg / l
Mixtures						
Sample name	In use	Measured	Change mi	xture size		
1 P mt		Yes	0.11			
2 P XS1 1		Ves Ves	Current mi	xture		All mixtures
3 P XS 2		2 Ves	Wet film t	hickness:	250 µm ≑	Measure
4 P XS 3			Mixture vo	olume:	191 ml	
	_	Yes 3			Actual	
5 P XS 4		Yes	р		amount (g) 262,769	
6 P XS 5		Yes	XS		.910382	
7 P XS 6		Yes		U	,910362	
8 P XS 7		Yes				
4	5	6	Used spec	tro - measure d	late:	

**1.Sample name:** The table to show all mixtures based on colorant selection on the Colorant section.

**2.In use:** When check box is enabled, selected mixture is used on the characterization.

**3.Measured:** When Not measured text visible, selected mixture is not measured.

**4.Add mixture:** The button to add a new mixture.

**5.Export:** The button to export mixture values.

**6.Delete mixture:** The button to delete selected mixture.

In the right hand side of the **Mixtures** section, the following options are available:

	1				
ase Sta	characterization Sample Resu tus	ults KS Analy	ysis Engine results		
	Ext Latex NoTop 1000 (5) - D	Ext	t Latex NoTop 1000 (5) - P 🛛 🥥	INNOVATINT - AA 🌘	INNOVATINT - ED
	Ext Latex NoTop 1000 (5) - ED	Ext	t Latex NoTop 1000 (5) - TR 🛛 🥥	INNOVATINT - B	INNOVATINT - M 🥥
	Ext Latex NoTop 1000 (5) - M		VOVATINT - A	INNOVATINT - D	INNOVATINT - P
•					•
rod	luct: Ext Latex NoTop 1000 (5)	▼ Base	P V	White: KU	Black: XS
	specific gravity:		1,38 kg / l	1,92 kg / l	1,45 kg//
	tures		1,36 Kg / 1	1,52 kg / 1	
[	Sample name	In use	Measured	Change mixture size	1 2 3
1	P mt		Yes	0.11	
F				Current mixture	6 All mixtures
_	P XS 1		Yes	et film thickness: 250	
3	P XS 2		Yes 4	xture volume:	191 ml
4	P XS 3		Yes	Proposed Actua	8
5	P XS 4		Yes	Code amount (g) amou	int (g)
6	P XS 5	<b>V</b>	Yes	P 262,76	<sup>9</sup> 7
7	P XS 6		Yes	XS 0,9103	82
				□ KU	
8	P XS 7		Yes	9 10	11
				Used spectro - measure date:	13
					13

**1.Change mixture size:** The drop down menu to show all mixtures based on colorant selection on Colorant section.

**2**. The button to add new mixture size.

**3.** The button to delete selected mixture size.

**4.Current mixture**: The button to set settings for selected mixture.

5.All mixtures: The button to set settings for all mixtures.

**6.Wet film thickness:** The selector to set used film thickness of the draw downs.

7.Mixture volume: The text field to display total mixture volume (?)

8.Measure: The button to measure selected mixture.

**9.Code:** The field to display component code of the mixture.

**10.Proposed amount(g):** The field to display component amount on proposed mixture.

**11.Actual amount(g):** the field to enter actual amount used on the mixture.

**12.Used spectro – measure date**: The field to display spectrophotometer model and date of measurement.

**13.Calculate K/S:** The button to calculate K/S values (drawdown measurements needs to be done to activate this button.)

Add can size

Add can size

Cansize code:

Nominal amount (ml):

O

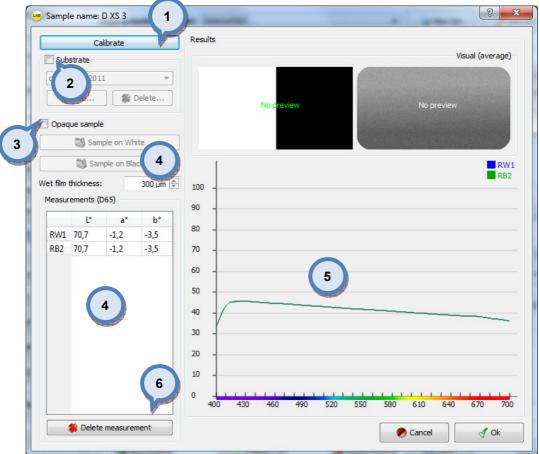
Cancel

 $\ensuremath{\textbf{1.Cansize code:}}$  The text field to enter the code or the name for the can size.

2.Nominal amount (ml): The selector to set total volume of the can.

# When the 💽 button is clicked, following window opens up:

When **mixture is selected** and **actual amount for base paint** is entered, and **Measure** button is clicked, following window opens up:



**1.Calibrate:** The button to calibrate the spectrophotometer.

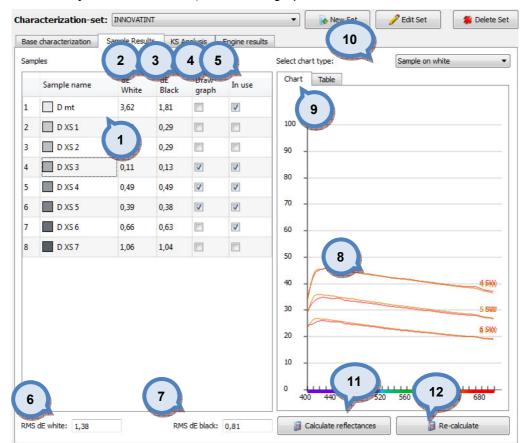
2.Subsrate The check box to enable substrate selector section.

**3.Opaque sample:** When check box is enabled, drawdown is treated as fully hiding, and measurement over white substrate is required (the Sample on white button is enabled). When the check box is not enabled, the draw down is treated as translucent and measurements over both white and black are required (the Sample on white and the Sample on black buttons are enabled).

**4.Measure buttons:** The buttons to measure draw downs with the spectrophotometer.

**5.Results:** The colour box and the graph to visualize measurements.

**6.Delete measurement:** The button to delete selected measurement from the list (4).



#### In the **Sample results** section, the following options are available:

1.Samples: The table to display mixtures.

**2.dE White:** Sample measurement over white substrate vs. theoretical measurement

**3.dE Black:** Sample measurement over black substrate vs. theoretical measurement

4.Draw graph: Items to be displayed

5.In use: Items used in calculations (to define KS-values)

**6.RMS dE white:** 'Root mean square' of white measurement vs. theoretical measurements

**7.RMS dE black: '**Root mean square' of white measurement vs. theoretical measurements

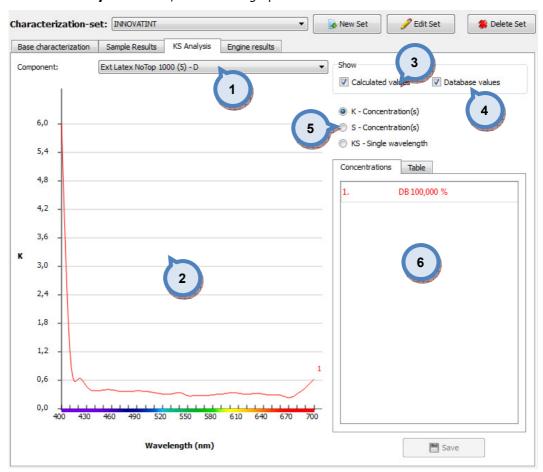
**8.Sample reflectance(real/theoretical):** Selected sample reflectance displayed.

9.Select chart type: The chart or table display of the measured mixtures.

**10.Information type:** Dropdown list to select type of information shown below. Options are; sample on white, sample on black and sample on white/black.

11.Calculate reflections: The button to calculate reflectance values.

**12.Re-calculate:** The button to re-calculate reflectance values for display only. This does not overwrite previous calculation values.



#### In the **KS Analysis** section, the following options are available:

1.Component: The drop down list to select system.

**2.Table:** The chart display of the measured mixtures.

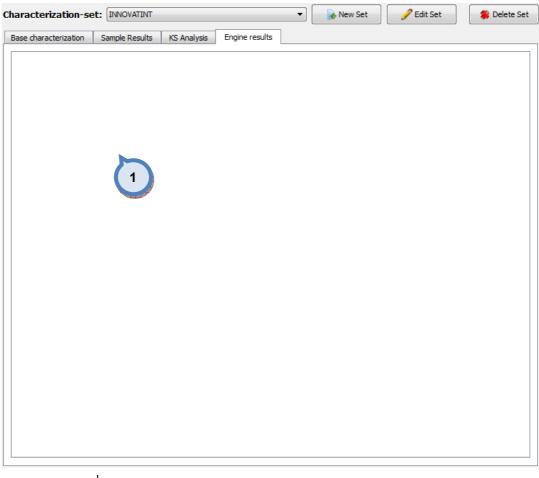
**3.Calculated values:** When check box is enabled calculated values are showed on chart.

**4.Database values:** When check box is enabled database values are showed on chart. The database values exist when previous characterization data is available in the database.

**5.K, S, KS:** The radio buttons to select which component is showed on the graph. If KS single wavelength is selected, wavelength can be changed from the selector on the right.

**6.Concentrations/Table:** The table to display mixture information.

In the **Engine results** section, the following options are available:



# **1.**The text field to display the log file of the characterization engine.

## 3.1.5 All

In the **All** section you have 3 tab pages: Samples, KS analysis, and Engine results. In this section you can view all component measured at the same time. You can calculate reflectance values on this page, but new measurements you need to do in the previous sections for colorants, and base paints. It is possible to calculate KS-values to all components in the selected set.

amp	es KS Analysis Engine resu	lts				
ampl	es					Select chart type: Sample on white
	Sample name	dE White	dE Black	Draw graph	In use (	Chart Table
93	C 90,0% KU 5,0% YH6 5,0%	0,28	0,43			
94	C 90,0% KU 7,5% BH5 2,5%	0,59	0,60	<b>V</b>		100
95	C 90,0% KU 7,5% BL5 2,5%	0,50	0,50	<b>V</b>	<b>V</b>	100 -
96	C 90,0% KU 7,5% CL5 2,5%	0,54	0,55		<b>V</b>	
97	C 90,0% KU 7,5% GH5 2,5%	0,59	0,60	$\checkmark$	<b>V</b>	90 -
98	C 90,0% KU 7,5% OM6 2,	0,47	0,48		<b>V</b>	80 -
99	C 90,0% KU 7,5% RH4 2,5%	0,49	0,51		<b>V</b>	80 -
100	C 90,0% KU 8,8% BH5 1,3%	0,43	0,44		<b>V</b>	70
101	C 90,0% KU 8,8% BL5 1,3%	0,63	0,57			
102	C 90,0% KU 8,8% CL5 1,3%	0,42	0,42		<b>V</b>	60 -
103	C 90,0% KU 8,8% GH5 1,3%	0,55	0,55			
104	C 90,0% KU 8,8% OM6 1,	0,30	0,31			50
105	C 90,0% KU 8,8% RH4 1,3%	0,75	0,77			
106	C 90,0% KU 8,8% YH6 1,3%	0,44	0,51			40
107	C 90,0% KU 9,4% BH5 0,6%	0,27	0,27			
108	C 90,0% KU 9,4% BL5 0,6%	0,59	0,42			30 30 93%
109	C 90,0% KU 9,4% CL5 0,6%	0,28	0,27		<b>V</b>	
110	C 90,0% KU 9,4% GH5 0,6%	0,19	0,18		<b>V</b>	20
111	C 90,0% KU 9,4% OM6 0,	0,17	0,18		<b>V</b>	
112	C 90,0% KU 9,4% RH4 0,6%	0,43	0,43		<b>V</b>	10 97 bi 94 Mi
113	C 90,0% KU 9,4% YH6 0,6%	0,39	0,45			
114	C 90,0% KU 9,7% BL5 0,3%	0,58	0,34			0
115	C 90.0% KU 9.7% CL5 0.3%	0.34	0.29			400 440 480 520 560 600 640 680
•					•	

In the **Samples** section, the following options are available:

amples Sa								10 )
Sa					Y		Select cha	art type: Sample on white
	ample name	2	3	4	5	aruse ^	Chart	Table
-						muse		
93		0% YH6 5,0%		0,43				9
94		5% BH5 2,5%		0,60	<b>V</b>		100 -	Constant of the second s
95	C 90,0% KU 7, C 90,0% KU 7,			0,50				
96 <b></b>			1	0,55			90 -	
98	C 90,0% KU 7, C 90,0% KU 7,		0,59	0,60 0,48		✓ ✓		
99		5% RH4 2,5%		0,40			80 -	$\frown$
		8% BH5 1,3%		0,31		V		
101	C 90,0% KU 8,	•		0,57			70 -	$\langle \cdot \cdot \cdot \rangle$
02		8% CL5 1,3%		0,42		V		
103		8% GH5 1,3%		0,55			60 -	
104	C 90,0% KU 8,			0,31				
105		8% RH4 1,3%		0,77			50 -	
106		8% YH6 1,3%	-	0,51				
107	C 90,0% KU 9,	4% BH5 0,6%	0,27	0,27			40 -	
108	C 90,0% KU 9,	4% BL5 0,6%	0,59	0,42			30 -	35400
.09	C 90,0% KU 9,	4% CL5 0,6%	0,28	0,27		V	30 -	
10	C 90,0% KU 9,	4% GH5 0,6%	0,19	0,18		<b>V</b>	20 -	
11	C 90,0% KU 9,	4% OM6 0,	0,17	0,18		<b>V</b>	20 -	
12	C 90,0% KU 9,	4% RH4 0,6%	0,43	0,43		<b>V</b>	10 -	97 BW/ 94 RM/
13	C 90,0% KU 9,	4% YH6 0,6%	0,39	0,45			1 1	2200
14	C 00.0% KU 9,	7% BL5 0,3%	0,58	0,34			0 -	
<u>15 </u>	6 <u>% KU 9</u> .	7% CL5 0.3%	0 7	9		<b>V</b>	400	0 4 11 520 5 12 640 680

1.Samples: The table to display mixtures.

**2.dE White:** Sample measurement over white substrate vs. theoretical measurement

**3.dE Black:** Sample measurement over black substrate vs. theoretical measurement

4.Draw graph: Items to be displayed

5.In use: Items used in calculations (to define KS-values)

**6.RMS dE white:** 'Root mean square' of white measurement vs. theoretical measurements

**7.RMS dE black: '**Root mean square' of white measurement vs. theoretical measurements

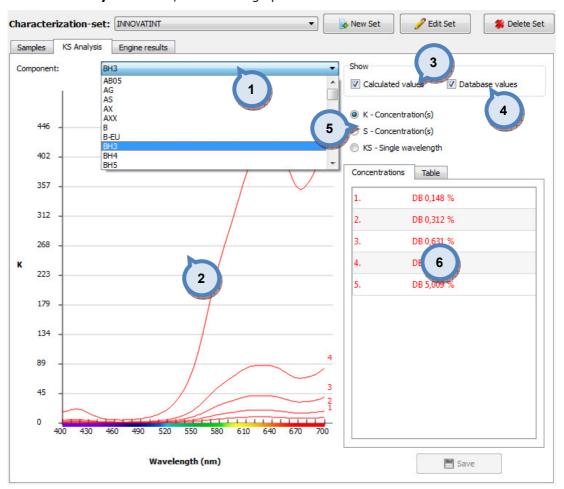
**8.Sample reflectance(real/theoretical):** Selected sample reflectance displayed.

9.Select chart type: The chart or table display of the measured mixtures.

**10.Information type:** Dropdown list to select type of information shown below. Options are; sample on white, sample on black and sample on white/black.

**11.Calculate reflectances:** The button to calculate reflectance values.

12.Calculate KS values: The button to calculate KS values.



In the **KS Analysis** section, the following options are available:

**1.Component:** The drop down list to select component. all components in the characterization set is present.

**2.Table:** The chart display of the measured mixtures.

**3.Calculated values:** When check box is enabled calculated values are showed on chart.

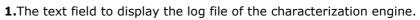
**4.Database values:** When check box is enabled database values are showed on chart. The database values exist when previous characterization data is available in the database.

**5.K, S, KS:** The radio buttons to select which component is showed on the graph. If KS single wavelength is selected, wavelength can be changed from the selector on the right.

**6.Concentrations/Table:** The table to display mixture information.

In the **Engine results** section, the following options are available:

Samples KS Analysis Engine results	haracterization-set:	INNOVATINT	•	🔒 New Set	🥜 Edit Set	🍔 Delete Set
	Samples KS Analysis	Engine results				



#### 3.1.6 Base character set

When the system you like to export, has not been characterized with the white and black colorant included in this system, you can use Base character set page, to create a such a system. This function will use white and black colorant in the system, and it will then allow matching function to work properly, even if the original characterization is made with other white and black colorant.

In the **Base character set** page, you have the following options available:

Filter by product name:					
Base characterization s	ets	1			
Product name		!	Base code	Set to use in matching	
Alkyd Low Build 2 +	3 Bases 6204 Ext	A COLORED	BL		
Alkyd Low Build 2 +	3 Bases 6204 Ext		RD		
Alkyd Low Build 2 +	3 Bases 620 2		TAL		
Alkyd Low Build 2 +	3 Bases 620		TDL		
Alkyd Low Build 2 +	3 Bases 6204 Ext		YE 3		
Alkyd Low Build 2 +	3 Bases 6204 Int		BL	4	
Alkyd Low Build 2 +	3 Bases 6204 Int		RD		
Alkyd Low Build 2 +	3 Bases 6204 Int		TAL		
Alkyd Low Build 2 +	3 Bases 6204 Int		TDL		
Alkyd Low Build 2 +	3 Bases 6204 Int		YE		
Alkyd Low Build 2 Ba	ases 6204 Ext		TAL		
Alkyd Low Build 2 Ba	ases 6204 Ext		TDL		
Alkyd Low Build 2 Ba	ases 6204 Int		TAL		
Alkyd Low Build 2 Ba	ases 6204 Int		TDL		
Alkyd Low Build 2 Ba	ases 6800		TAL		
Alkyd Low Build 2 Ba	ases 6800		TDL		
Alkyd Low Build 2 Ba	ases 6801		TAL		
Alkyd Low Build 2 Ba	ases 6801		TDL		
Alkyd Low Build 2 Ba	ases 6802		TAL		-
Alternative bootstrap	components for export				
System:	Aquaplus 3400	•	Characterization set	INNOVATINT	•
White characterizer:				•]	
Black characterizer:				•	
Base characteriser:				•	
				🔅 Reset	Save

**1.Filter by product name:** The text field to filter the product (2) by typing the name of the product or a part of the name.

2.Product name: The list of the products.

**3.Base code:** The base paint code of the products.

**4.Set to use in matching:** The drop down list to select which characterization set is used when making matching with this product.

Product name	Base code	Cat to use is matching	
		Set to use in matching	
Alkyd Low Build 2 + 3 Bases 6204 Ext	BL		
Alkyd Low Build 2 + 3 Bases 6204 Ext	RD		
Alkyd Low Build 2 + 3 Bases 6204 Ext	TAL		
Alkyd Low Build 2 + 3 Bases 6204 Ext	TDL		
Alkyd Low Build 2 + 3 Bases 6204 Ext			
Alkyd Low Build 2 + 3 Bases 6204 Int	BL		
Alkyd Low Build 2 + 3 Bases 6204 Int	RD		
Alkyd Low Build 2 + 3 Bases 6204 Int	TAL		
Alkyd Low Build 2 + 3 Bases 6204 Int	TDL		
Alkyd Low Build 2 + 3 Bases 6204 Int	YE		
Alkyd Low Build 2 Bases 6204 Ext	TAL		
Alkyd Low Build 2 Bases 6204 Ext	TDL		
Alkyd Low Build 2 Bases 6204 Int	TAL		
Alkyd Low Build 2 Bases 6204 Int	TDL		
Alkyd Low Build 2 Bases 6800	TAL		
Alkyd Low Build 2 Bases 6800	TDL		
Alkyd Low Build 2 Bases 6801	TAL		
Alkyd Low Build 2 Bases 6801	TDL		
Alkyd Low Build 2 Bases 6802	TAL		
Alternative bootstrap components for export			
System: Aquaplus 3400	Characterization se		•
White characterizer:	1	• 2	
Black characterizer:	3	-	al marker of
Base characteriser:		· ·	

1.System: The drop down list to select a system.

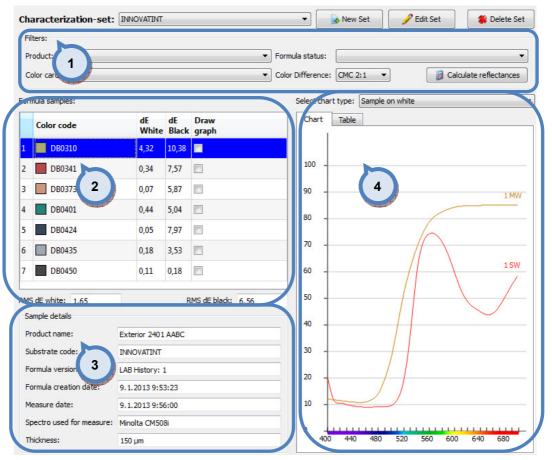
2.Characterization set: The drop down list to select a characterization set.

**3.Chacterization components:** The drop down list to select a white, black, and base characterizers (that are included in the system you are exporting).

#### 3.1.7 Test

In the **Test** area it is possible to check characterization efficiency against real drawdowns used to match colors.

Pages is divided into four areas; filters, formula samples, sample details and chart area.



- 1.Filters: Area to limit number of samples
- 2.Formula sample: table to show measured samples
- **3.Sample details:** Information about individual sample.
- 4.Chart view: Graphical presentation of the samples.

	racterization-set:				w Set
	ers: oduct:			•	Formula status:
(m	lor card:			•	
Co				•	
orm	ula samples:				Select chart type: Samp 3 4
	Color code	dE White	dE Black	Draw graph	Chart Table
1	DB0310	4,32	10,38		
2	DB0341	0,34	7,57		100 -
3	DB0373	0,07	5,87		90 - 1
4	DB0401	0,44	5,04		80 -
5	DB0424	0,05	7,97		
6	DB0435	0,18	3,53		70
7	DB0450	0,11	0,18		60 1
MS	dE white: 1,65		R	MS dE black: 6,56	50 -
Sar	mple details				40
Product name: Exterior 2401 AABC					
Substrate code: INNOVATINT			8		30 -
Formula version: LAB History: 1			1		20
Formula creation date: 9, 1.2013 9:53:23			3:23		
Measure date: 9.1.2013 9:56:00			6:00		10
Spectro used for measure: Minolta CM508i					
Th	ickness:	150 µm			400 440 480 520 560 600 640 680

The **Filters** area has following options available:

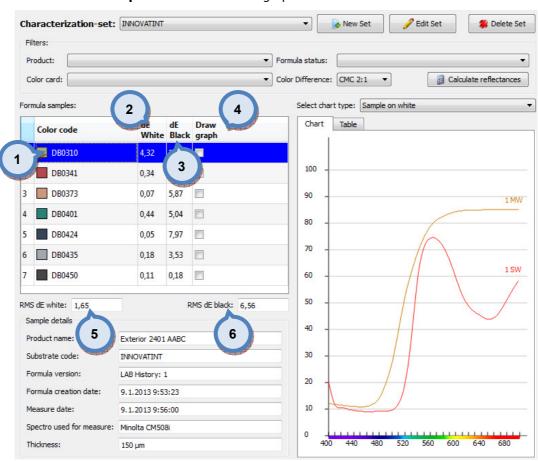
**1.**Dropdown lists to limit selection by product and/or color card.

**2.Formula status:** Dropdown list to select desired type of measurement. see formula management area for more information about different statuses.

2.Formula sample: table to show measured samples

**3.Color difference:** Dropdown list to select color difference equation to be used in calculations, formula sample table.

**4.Calculate reflectances:** A button to recalculate set of data into the formula sample table.



#### The **Formula samples** area has following options available:

**1.Color code:** Name of the same and its visualisation.

**2.dE White:** dE value, measured over white substrate, between real measurement of the sample and theoretically calculated reflectance from the componenents used in the formula to achieve sample color.

**3.dE Black:** dE value, measured over black substrate, between real measurement of the sample and theoretically calculated reflectance from the componenents used in the formula to achieve sample color.

4.Draw graph: Checkbox to select samples to the right hand side table.

**5.RMS dE white:** Root mean square value calculated from the sample set using white measurements.

**6.RMS dE black:** Root mean square value calculated from the sample set using black measurements.

Fil	lters:				
Pr	roduct:			▼ F	Formula status:
C	olor card:			▼ C	Color Difference: CMC 2:1
Forr	mula samples:			2	Select chart type: Sample on white
	Color code	dE White	dE Black	Draw graph	Chart Table
1	DB0310	4,32	10,38		3
2	DB0341	0,34	7,57		100
3	DB0373	0,07	5,87		90 -
4	DB0401	0,44	5,04		80
5	DB0424	0,05	7,97		
6	DB0435	0,18	3,53		70
7	DB0450	0,11	0,18		60 15
-	S dE white: 1,65			MS dE black: 6,56	50
	ample details		, n	UNS DE DIACK: 6,56	
Product name: Exterior 2401 AABC					40 -
Substrate code: INNOVATINT					30
Ĵ	prmula version:	LAB History: 1			20
Fo	ormula creation date:	9.1.2013 9:53:23			
М	easure date:	9.1.2013 9:56:00			10
Spectro used for measure: Minolta CM508i			8i		
T	hickness:	150 µm			400 440 480 520 560 600 640 680

#### The Sample details and Chart areas have following options available:

**1.Sample details:** Information about the selected sample.

**2.Chart:** Shows selected samples, their reflectance curves and simulated reflectance curves.

**3.Table:** shows selected sample reflectance and simulated reflectance in table format. see picture below.

**4.Select chart type**: Dropdown list options are:

- Sample on white
- Sample on black
- Sample on white / black

#### Select chart type: Sample on white

Chart	Table			
nm	RW	RW (sim)	ch	-
400	12,01	20,24	-8,23	
410	11,69	11,51	0,18	
420	11,36	10,54	0,82	E
430	11,08	9,87	1,21	
440	10,88	9,39	1,49	
450	10,71	9,10	1,61	
460	10,93	8,89	2,04	
470	11,77	8,95	2,82	
480	14,29	9,16	5,13	
490	19,71	9,17	10,54	
500	27,78	9,63	18,15	
510	39,84	11,97	27,87	
520	52,31	19,54	32,77	
530	61,61	36,80	24,81	
E 40	co.oo	50.40	0.00	Ŧ

# 3.2 Matching rules

On this section you can set matching rules that are applied based on either product or system. Rules available for use are colorant amount restrictions, and not-allowed colorant combinations.

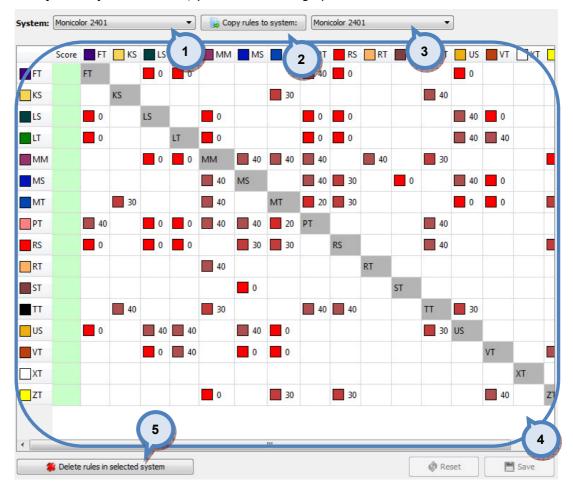
System Selection	
Monicolor 2401 🔹	
System overview	
Configuration	
Matching & Characterization	Matching rules
Characterization set	7
G Matching rules	Same and Sa
System specific	
Product specific	
Color matching	
Fill RGB(s)	
Management & Analysis	]
Options	]
Services & Replication	]

### 3.2.1 System specific

# To set system specific matching rules, navigate into the **Matching and Characterization** $\Rightarrow$ **Matching rules** $\Rightarrow$ **System specific** page.

This feature is meant to allow the user to configure forbidden and avoidance pairs into Innovatint databases. These pairs will be active in matching new formulae and when looking at old formulae in products.

The idea behind the different combinations is that you can forbid colorant pairs that represent complimentary colors or are of different concentration levels of the same color. The avoidance pairs are meant for colorants which should not be used together due to the metamerism or cost issues. Or alternatively, this feature can be set to prefer certain pairs over the other colorants, like the inorganic colorants.



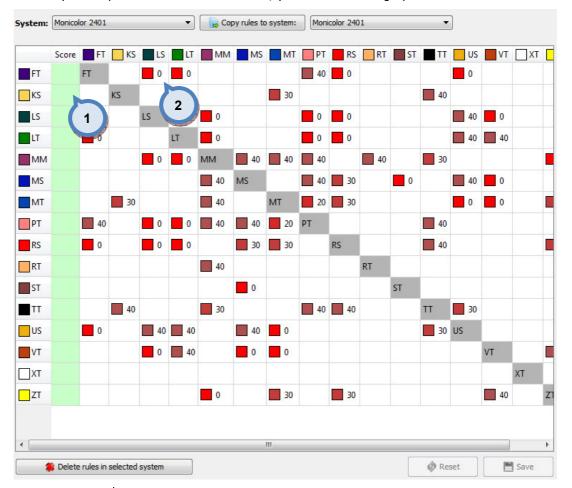
### On **System specific** section, you have following options available:

1.System: The drop down list to select system.

**2.Copy rules to system:** The button to copy rules to system (selected on the right hand side drop down list (**3**).

**3.Table:** The table of the colorants with the rules indicators.

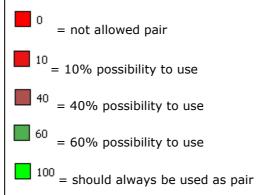
**4.Delete rules in selected system:** The button to delete all rules in the selected system.



#### In the system specific **rules table** section, you have following options available:

**1.Score:** The text field to enter the score number. Score numbers: (1=most favourable colorant, 10=least favourable colorant)

2.Pair weights: The click on field to set weight for colorant pairs:



## 3.2.2 Product specific

4	A	В			2	3	
	m	Can size:		0,11	•		
	AA Min amount	5 AA amount	B Min amount	B Max amou	6 C Min amount	C Max amount	
FT		8.87		8.87		8.87	
KS	4.44	8.87	1.97	8.87	4.5	8.87	
LS	0.18	8.87	0.18	8.87	0.18	8.87	
LT		0.43		0.43		0.43	
ММ		8.87		8.87		8.87	
MS	0.18	8.87	0.18	8.87	0.18	8.87	
мт		0.74		0.74		0.74	
РТ		8.87		8.87		8.87	
RS		0.0	4.19	8.87	4.5	8.87	
RT		8.87		8.87		8.87	
ST		8.87		8.87		8.87	
TT		8.87		8.87		8.87	
US		8.87 8		8.87		8.87	7
V		8.87	J	8.87		8.87	

On **Product specific** section you have following options available:

**1.Product:** The drop down list to select the product.

**2.Copy rules to product:** The button to copy rules to product (selected on the right hand side drop down list (**3**).

**4.Score:** The table to display score for each base paint. Score numbers: (1=most favourable base paint, 10=least favourable base paint).

5.Unit: The drop down list to select used unit on the table below.

**6.Can size:** The drop down list to select used can size on the table below.

7.Table: The table of colorants with the rules indicators.

8.Delete rules in selected product: The button to delete rules in selected product.

## In the system specific **rules table** section, you have following options available:

	2215		20-20				
A	A	В	с				
€							
nit:	m	▼ Can size:		0,11	•		
	AA Min amount	AA Max amount	B Min amount	B Max amount	C Min amount	C Max amount	
FT		8.87		8.87		8.87	
KS	4.44	8.87	1.97	8.87	4.5	8.87	
LS	0.18	8.87	0.18	8.87	0.18	8.87	
LT		0.43		0.43		0.43	
MM		8.87		8.87		8.87	
MS	0.18	8.87	0.18	8.87	0.18	8.87	
МТ		0.74		0.74		0.74	
РТ		8.87		8.87		8.87	
RS		0.0	4.19	8.87	4.5	8.87	
RT		8.87		8.87		8.87	
ST		8.87		8.87		8.87	
TT		8.87		8.87		8.87	
US		8.87		8.87		8.87	
VT		8.87		8.87		8.87	

**1.Min amount:** The text value of the smallest allowed component amount. Each of the base paints are specified separately.

**2.Max amount:** The text value of the largest allowed component amount. Each of the base paints are specified separately.

NOTE: Relative to white colorant amount rules are set to the field to which it is compared to. Syntax is following:

## 3.3 Color matching

For matching, navigate into the **Matching and Characterization ⇒ Color matching** page.

On this page, you can set matching parameters, and execute matching for both single color, and set of colors in same time.

System Selection	
Monicolor 2401 🔹	
System overview	
Configuration	
Matching & Characterization	Color matching
Characterization set	Color matching
Matching rules	7
Color matching	1 manual and 1
Matching settings	
Statistics	
Results	
Color correction	
Dispense queue	
Fill RGB(s)	
Management & Analysis	
Options	
Services & Replication	

On color matching section you have five sub pages:

- Matching settings,
- Statistics,
- > Results,
- Color correction, and
- > Dispensing queue.

## 3.3.1 Matching settings

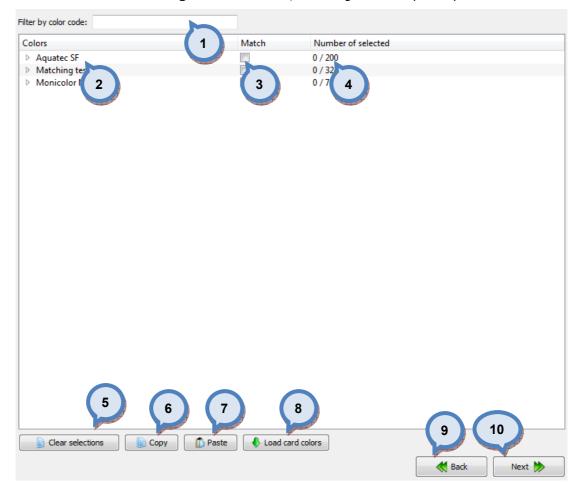
System Selection	Continue previous work		Start new matchin
nicolor 2401 👻	Previous work		2
System overview	Colors 1	Products:	Colorants:
Configuration	Colo Monicolor Nova 720	Count 6 / 728	
atching & Characterization			
Characterization set	3		
C Matching rules			
🔾 Color matching			
Matching settings			
Statistics			
Results			
Color correction			
Dispense queue			
Fill RGB(s)			
Management & Analysis			
Options			
Services & Replication			

In the **Matching settings** window of the **Color matching** section, you have following options available:

**1.Continue previous work:** The button to continue previous matching work. Use Previous work tables to select work to be continued.

2.Start new matching: The button to start a new matching work.

3.Color: The list of previous matched colors.



#### When **Start new matching** button is clicked, following window opens up:

- 1.Filter by color cade: The text field to filter Colors list.
- 2.Colors: The list of color cards available.
- 3.Match: When check box is enabled, whole color card will be matched.

**4.Number of selected:** The text field to display the number of colors selected from the color card into the matching work, out of total number of colors in the color card.

- 5.Clear selections: The button to clear selections.
- **6.Copy**: The button to copy the table content in to the clipboard.
- **7.Paste**: The button to paste the clipboard content in to the table.

Note: Only the color codes that matches the color codes in the database are selected, the other codes are neglected.

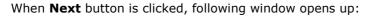
8.Load card colors: The button to load card colors in to the table.

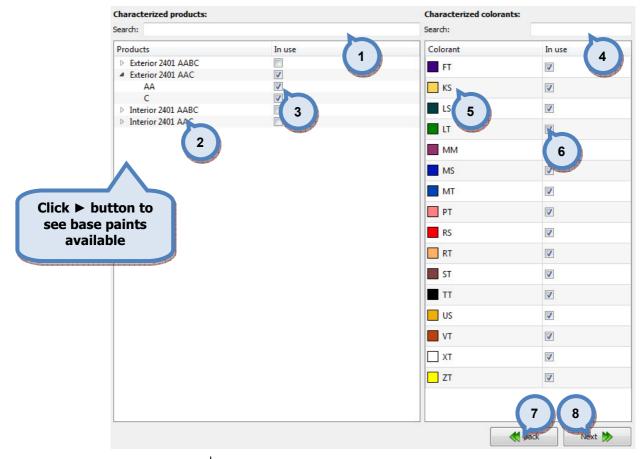
- 9.Back: The button to return to the previous window.
- **10.Next:** The button to proceed to the next window.

Colors	Match	Number of selected	
	Watch		
Aquatec SF		0 / 200	
<ul> <li>Matching test</li> <li>Monicolor Nova 720</li> </ul>		0 / 324	
		5 / 728	
NOVA F016			
NOVA F017 NOVA F018			
NOVA F018			
NOVA F021	(1)		
NOVA F027			
NOVA F029	V		
NOVA F030			
NOVA F031	<ul> <li>▼</li> </ul>		
NOVA F032	×		
NOVA F037			
NOVA F038			
NOVA F039			
NOVA F043			
NOVA F044			
NOVA F048			
NOVA F050			
NOVA F052			
NOVA F058			
NOVA F060			
NOVA F071			
NOVA F072			
NOVA F077			
NOVA F079			
NOVA F081			
NOVA F087			
NOVA F089			+
	[2007]		•
Clear selections	🚺 Paste 🛛 🚯 Load o	ard colors	
		Back	Next ≫
		C Back	Next 💋

# When **Load card colors** button is clicked, following options are available:

 $\ensuremath{\textbf{1.Match:}}$  When check box is enabled, color code is included in to the matching work.





**1.Search:** The text field to search products by name or parts of the name.

2.Products: The list of products and base paints available.

**3.In use:** When check box is enabled, selected component is used in matching.

**4. Search:** The text field to search colorants by name/code or parts of the name/code.

5.Colorants: The name or code of the colorant.

**6.In use**: When the check box is enabled, the colorant is used in the matching work.

**7.Back:** The button to return to the previous window.

8.Next: The button to proceed to the next window.

When **Next** button is clicked, following window opens up, it has following options available on the **upper left hand side**:

Matching settings							
Setting template:				- 🖪 🏽	rules		
Maximum dE (CMC D65):	2,00		1		Colorant s	system ru	ules
Number of colorants:	1 🔹 to 5		- A A A A A A A A A A A A A A A A A A A	2	🔽 Use Colorant p	product r	ules
Opacity	1 0 5				Weights:		
Opacity dE:	1,25	5			CMC dE(D65):	2,00	<b>*</b>
			and the state of t		1000 1000 10		
Wet film thickness:	150 µm	J.	_		Cielab dE(A):	1,00	×
Substrate:	7				Cielab dE(F11):	1,00	*
		8			Opacity DE:	3,00	-
Unit:	ml	- Contraction			Colorant price:	10,00	-
Minimum allowed colorant volume:	0,08				Colorant priority:	2,00	-
Can size:	0,251		•		Colorant pairs:	4,00	*
Zone:	Default Zone			•	Sensitivity:	1,00	×
Selected Colors		Colorants		Products			
Color card	Count	FT		Exterior 2401 AA	C - AA		
Monicolor Nova 720	5 / 728	KS		Exterior 2401 AA	.C - C		
		LS					
		MM	E				
		MS					
		MT					
		PT RS					
		RT					
		ST	-				
		<b>T</b> T					
Export settings template			K Bad	k 🛛 📓 Mat	ch 🛛 🗐 Mat	ch only n	nissing

1.Setting template: The drop down field to select setting template.

2. The button to save setting template.



 ${}^{\textcircled{s}}$ : The button to delete selected setting template.

**4. Maximum dE (CMC D65):** The text field to specify maximum color difference allowed in the calculation, calculated with CMC using D65 light.

**5.Number of colorants**: The minimum and maximum number of the colorants used in calculation.

**6.Opacity dE**: The text field to set color difference tolerance to reach the opacity of the drawdown.

Note: This setting is used with the combination of film thickness on field (7).

7.Wet film thickness: The text field to specify used film thickness.

8.Substrate: The button to select substrate used.

Matching settings						Matching rules		
Setting template:					- 🔳 🏽	Matching rules		
Maximum dE (CMC D65):	2,00					Use Colorant	system ri	ules
	2,00					Use Colorant p	product r	ules
Number of colorants:	1	🜩 to 5	<b>*</b>					
Opacity						Weights:		
Opacity dE:	1,25	·				CMC dE(D65):	2,00	*
Wet film thickness:	150 µm					Cielab dE(A):	1,00	*
Substrate:			•			Cielab dE(F11):	1,00	*
						Opacity DE:	3,00	*
Unit:	ml		1 🗖			Colorant price:	10,00	-
Minimum allowed colorant volume:	0,08	2				Colorant priority:		•
Constitute	0,251							• •
Can size:	0,251	3				Colorant pairs:	4,00	
Zone:	Default Z	one			•	Sensitivity:	1,00	-
Selected Colors		4	Colorants		Products			
Color card		Count	FT		Exterior 2401 AA	C - AA		
			KS		Exterior 2401 AA			
Monicolor Nova 720		5 / 728	LS					
5			LT	E				
			MM					
			MT					
			PT					
			RS					
			RT					
6			ST TT	-				
Export settings template				K Bac	k 👩 Mati	ch 🔰 🔠 Mat	ch only r	nissing

### The following options available on the **lower left hand side**:

**1.Unit:** Unit type where 'minimum allowed colorant value' is refered to.

**2. Minimum allowed colorant volume:** The text field to specify minimum allowed colorant volume in the calculation. This setting is used in combination of the Can size (2).

**3.Can size**: The can size used in the calculation. This setting is used in combination of the Minimum allowed colorant volume (1).

**4.Zone**: The drop down menu to select used Zone. This setting will determine the used colorant and product prices.

5.Selected colors: The list of selected color cards, and number of colors.

6.Export settings template: The button to export settings template.

Matching report	? ×
Select information for report:	
Export current settings	1
Product rules 2	
System rules	
Colorant amo	
5 Ok	Cancel

When **Export settings template** button is clicked, following window opens up:

- **1.Export current settings:** The button to export current settings.
- 2.Product rules: The button to export the product rules.
- **3.System rules:** The button to export the system rules.

**4.Colorant amount (ml):** The button to export the colorant amounts in millilitres. (this is active component after the matching. see: 3.3.2.**statistics, save matching report.)** 

**5.Ok:** When OK button is clicked, the pdf file is created into the folder user specifies before saving the file.

1atching settings								
Setting template:					- 🔳 🏽	Matching rules		
Maximum dE (CMC D65):	2,00					Use Colorant :	system r	ules
						🔽 Use Colorant j	product	rules
Number of colorants:	1	🜩 to 5	×					Y
Opacity						Weights:		
Opacity dE:	1,25	×			3	CMC dE(D65):	2,00	-
Wet film thickness:	150 µm	×				Vielab dE(A):	1,00	* *
Substrate:			•			Cielab dE(F11):	1,00	*
	1					Opacity DE:	3,00	-
Unit:	ml		•			Colorant price:	10,00	*
Minimum allowed colorant volume:	0,08					Colorant priority:	2,00	-
Can size:	0,251		•			Colorant pairs:	4,00	-
	(	2				Sensitivity:	1,00	*
Zone:	Default 2	one			•			
Selected Colors			Colorants		Products			
Color card		Count	FT	-	Exterior 2401 A			
Monicolor Nova 720		5 / 728	KS LS		Exterior 2401 A	AC - C		
			LI					
			MM	E				
			MS					
			PT					
			RS					
			RT					
			ST TT	-		4	5	
Export settings template				K Bac	k 📓 M	Mar	ch only i	missing

### The following options available on the **right hand side**:

**1.Use Colorant system rules:** When check box is enabled, system rules are used in matching work.

**2.Use Colorant product rules:** When check box is enabled, product rules are used in matching work.

**3.Weights**: The text fields to specify weights to be used in matching work. The biggest number has the biggest weight.

CMC dE(D65): Color difference using CMC formula with D65 light.

**Cielab dE(A):** Color difference using Cielab formula with A light.

**Cielab dE(F11):** Color difference using Cielab formula with F11 light.

**Contrast ratio:** Opacity of the drawdown on specified film thickness.

Colorant price: Color formula price.

Colorant priority: Colorant score, specified on the system specific rules.

**Colorant pairs:** Not allowed colorant pairs, specified on the system specific rules.

**Sensitivity:** Colorant sensitivity is a value to determine the impact on the accuracy of the formula when there is a dispensing inaccuracy. With the same dispensing error percentage the low concentrated colorants has smaller impact on final color accuracy than with the high concentrated colorants.

**4.Match:** The button to start matching work.

**5.Match only missing:** The button to start matching work to match only missing colors (ones not to have formula available).

Aatched colors: 5 / 5	100,00 % Success rate:	5/5	100,00 % Esti	imated time left: 00:00	00	
1		100%	3		4	L.
Product	Color coo	Base	Formula	Comme		1
Exterior 2401 AAC	NOVA F027	С	LT 0,16; TT 0,58; XT 22,1	LH		
Exterior 2401 AAC	NOVA F029	с	LT 0,17; MT 0,29; ST 0,2.	and the second se		
Exterior 2401 AAC	NOVA F031	С	MT 0,39	LH		
Exterior 2401 AAC	NOVA F032	С	LT 0,16; RT 0,18; TT 0,30.	LH		
Exterior 2401 AAC	NOVA F033	С	MT 0,40; RT 0,17: ST 0,1.	LH		
5 Back	6 Information X Matching finished		8	9	12 p matching	
M Dack					Jinatoning	
	<b>1.Matched</b> colors against number of c			ing, number	of colors	matched
	2.Matched colors of the project.	<b>%:</b> Status	of the project,	, number of ı	natched co	lors in %
	3.Success rate: S match against how			number of c	olors being	g able to

When **Match** or **match only missing** buttons are clicked, following window opens up:

4.Estimated time left: Time left to conclude matching project.

- 5.Product: Product where match made
- 6.Color code: Matched color
- 7.Base: Used base

8.Formula: Suggested formula

9.Comment: Comment if formula not hiding, LH (=low hiding)

10.Stop matching: The button to cancel matching process.

**11.0K:** The button to proceed on the **Statistics** window.

Note: If only one color is matched, the Statistics (section 3.3.2) view is skipped and the user is guided directly into the Results > Details (section 3.3.3) view page.

## 3.3.2 Statistics

On statistics page you have 5 tab page to view statistics by: matching accuracy, cost, colorant usage, base paint usage, and not possible formulas. On all of the tab pages, you have following options:

Product:				•	Base:	▼ Co	lor difference equa	ation: CMC 2:1	•	Update
Zone:	Default Zo	one		1			3			
Match a	ccuracy	Cost	Colorant u 2	asepaint usa	ge 🛛 🔘 Not p	oossible forn	nulas		4	5
🔳 Use	percentage	2	No.	and the second se						
4										
					1					
	0		0	0		0	0	0	0	
0,0-0,	,2 0	,2-0,4	0.4-0,6	0,6-0,8	0,8-1,0	1,0-1,2	1,2-1,4	1,4 <	NP	7
dE	Opacity d	ie De	6 dL Hi	stogram Nume	erical					
📑 Sar	ve matching	report								Save all

**1.Product:** The drop down list to select the product.

**2.Zone:** The drop down list to select the zone.

**3.Base:** The drop down list to select the base.

**4.Color difference equation:** The drop down list to select color equation used in the calculation.

**5.Update:** The button to re-fresh the graphs after making changes to selections.

**6.Save matching report:** The button to save the matching report.

7.Save all: The button to save all formula as a working version.

# On the Matching accuracy tab page of the Statistics window, you have following options:

Product:				•	Base:		Color diffe	erence equation:	CMC 2:1	•	Update
Zone:	Default Z	one		•						ί	
Match a	ccuracy	Cost	Colorant usage	Basepaint us	age	Not possible	le formulas				
🔳 Use	percentage	e									
4											
						a second					
	<u>0</u>		<u> </u>	<u>0</u>	1	0	0			0	
0,0-0,	2 (	0,2-0,4	0, 3	0,6-0,8	0,8-3	1,0 1,0	-1,2	1,2-1,4 1	,4 <	NP	
dE	Opacity (	dE De	lta a*b* dL Histo	ogram Num	nerical						
💾 Sav	ve matching	g report	]								Save all

**1.The graph:** The graph to visualise the matching result.

**2.Use percentage:** When check box is enabled, the values in the graph are based on percentages.

**3.Tab pages:** The matching values can be viewed by dE, Opacity dE, Delta  $a^*b^*$ , dL Histogram, and Numerical values, represented on separate tab pages.

On the <b>Cost</b> tab page of the <b>Statistics</b>	s window, you	have following	options
--	---------------	----------------	---------

Product: Zone:	Default	Zone		▼ Ba	ise:	Color diffe	rence equation: CM	C 2:1   Update
Match a	accuracy	Cost	Colorant usage	Basepaint usage	No	ot possible formulas		
	Produ		Base	Number of co	olors	Min cost 0,03 €	Max cost	Mean cost 1,30 €
Exte	rior 2401 .	1	2	, ,	3	0,03 €	1,71 €	1,30 € 6
		Constant and			and the second second	and the second sec	the sea of the local of	
			7					
Color	ant cost	Coloran	t and base cost	Formula cost				
💾 Sa	ve matchin	ig report	]					Save all
		:	1.Produc	<b>t:</b> The produc	ct code	e or name.		

**2.Base:** The base code.

**3.Number of colors:** The number of matched colors.

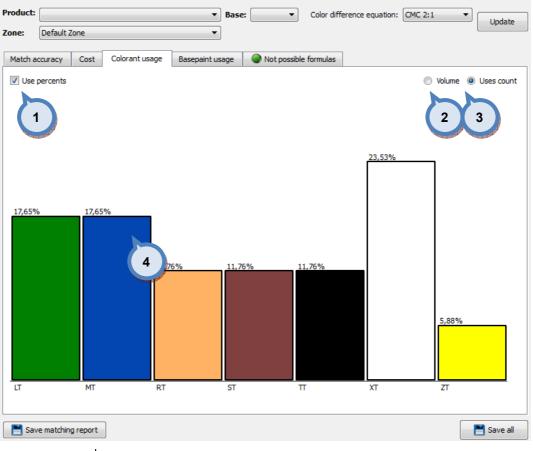
**4.Min cost.** The lowest cost of all matches.

**5.Max cost.** The highest cost of all matches.

**6.Mean cost.** The mean value of cost of all matches.

**7.Tab pages:** The matching costs can be viewed by Colorant cost, Colorant and base cost, and Formula cost representated on separate tab pages.

## On the **Colorant usage** tab page of the **Statistics** window, you have following options:



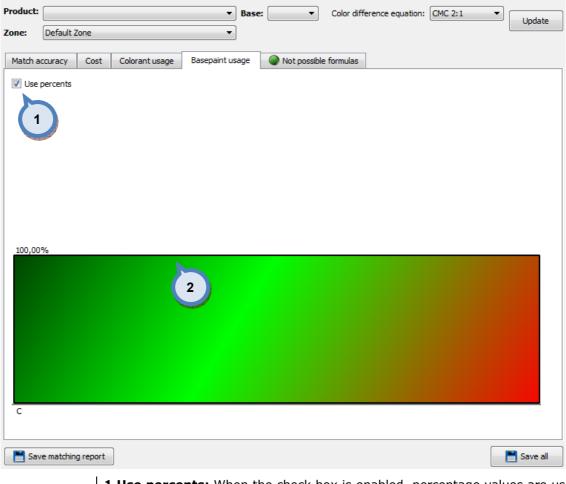
**1.Use percents:** When the check box is enabled, percentage values are used on the visual display, instead of volume.

2.Volume: The radio button to enable the view by volume.

**3.Uses count:** The radio button to enable view by number of colorants.

4.Visual display. The visual display of the colorants used.

On the **Basepaint usage** tab page of the **Statistics** window, you have following options:



**1.Use percents:** When the check box is enabled, percentage values are used on the visual display, instead of volume.

**2.Visual display.** The visual display of the base paints used.

Product:				•	Base:	•	Color diffe	erence equation:	CMC 2:1 -	
Zone:	Default Z	one		•						Update
Match a	ccuracy	Cost	Colorant usage	Basepaint us	age	Not possibl	e formulas			
	1									
	Name and Address of State	and a start								
						match NP formul	25			
					C Rel					
📕 Sav	e matching	report	]				2			💾 Save all
Jav	e naturing	report	J				The second second	and the second sec		Save ail

**1.List.** The list of the not possible formulas.

**2.Rematch NP formulas.** The button to return to matching settings to match not possible formulas (using other matching settings).

## 3.3.3 Results

On the results page, you can view, accept, or reject all color formula matched. Results page has three tab pages: Products, Colors, and Compatible products.

On the **Products** tab page of the **Results** window, you have the following options available, where areas a) and b) are constant:

Only the most r	cecine mate							
	ior 2401 AAC		nit:	US1/192		0,251	Color differe	
olor Card: Monic	olor Nova 72	.0	Zone:	Default Zo	one		<ul> <li>Configurable</li> </ul>	le items Details
Matched Colors	Compar	uble products				5		(7)
A	Base	Creation date	dE(D65)	dE(A)	dE(F11)	dL(D65)	da(D65)	db(D65)
	с	8.1.2013 10:48:09	0,039	0,319	0,074	-0,002	0,012	-0,027
NOVA F029	с	8.1.2013 10:48:09	0,012	0,427	0,231	-0,014	0,003	-0,008
NOVA F031	с	8.1.2013 10:48:09	0,854	0,851	0,861	-2,391	-0,203	0,007
NOVA F032	с	8.1.2013 10:48:09	0,023	9 33	0,186	-0,000	0,011	-0,017
NOVA F033	с	8.1.2013 10:48:09	0,045	0,566	0,962	-0,030	0,024	-0,030
Add to dispanse		Accent all		unt formula(c)	Paiart	Formula (c)	(A) Decet	Save
🗣 Add to dispense		Accept all		pt formula(s)	Reject 1		Reset	Save
🗣 Add to dispense	<b>1.0</b>	Only the m	nost rec	ent ma	tched p	roducts	and col	ors: When t nd colors are
s Add to dispense	<b>1.0</b> box the	Only the m x is enabled	nost rec d only the	e <b>nt ma</b> e most i	recent ma	roducts atched p	and color roducts a	ors: When t
s Add to dispense	<b>1.0</b> box the <b>2.6</b>	<b>Only the m</b> x is enabled table.	nost rec d only the The drop	e <b>nt ma</b> e most i down li	recent mast to sele	roducts atched p ct the pr	and cold roducts and roduct.	ors: When t
🗣 Add to dispense	1.0 bo: the 2.6 3.0	Only the m x is enabled e table. Products: T	nost rec d only the The drop the drop	e most n down li p down	st to sele	roducts atched p ct the pr e color c	and cold roducts and roduct.	ors: When t
Add to dispense	1.0 box the 2.5 3.0 4.0	Only the m x is enabled e table. Products: 7 Color card: Unit: The dr	nost rec d only the The drop The dro rop dowr	e most i down li p down n list to	st to sele list to the	roducts atched p ct the pr e color c e unit.	and cold roducts and roduct.	ors: When t
Add to dispense	1.( bo: the 2.F 3.( 4.1 5.2	Only the m x is enabled table. Products: 7 Color card:	nost rec d only the The drop The dro rop dowr drop dow	e most i down li p down n list to n list to	st to sele list to the select the	roducts atched p ct the pr e color c e unit. e zone.	and cold roducts an roduct. ard.	ors: When t

8.Details: The button to show details.

**9.Table of results:** Content of the table is defined by 'Configurable items'-button. see next pages.

b)

Product:	Exter	ior 2401 A	AC 🔻	Unit:	US1/192	<ul> <li>Can size:</li> </ul>	0,251	<ul> <li>Color difference</li> </ul>	ence:	CMC 2:1
Color Card:	Monic	olor Nova	720 🔻	Zone:	Default Z	one		Configurat	ole items	Details
Products	Colors	Com	patible products							
Matched Cold	ors									
Color code	e	Base	Creation date	dE(D65)	dE(A)	dE(F11)	dL(D65)	da(D65)	db(D6	i5)
NOVA	F027	С	8.1.2013 10:48:09	0,039	0,319	0,074	-0,002	0,012	-0,027	
	F029	с	8.1.2013 10:48:09	0,012	0,427	0,231	-0,014	0,003	-0,008	
NOVA	F031	с	8.1.2013 10:48:09	0,854	0,851	0,861	-2,391	-0,203	0,007	
	F032	с	8.1.2013 10:48:09	0,023	0,033	0,186	-0,000	0,011	-0,017	
	F033	с	8.1.2013 10:48:09	0,045	0,566	0,962	-0,030	0,024	-0,030	
	1		2	3		4		5		6

**1.Add to dispense queue:** The button to add the selected formula in to the dispensing queue.

**2.Accept all:** The button to accept all of the matched color formula on the list.

**3.Accept formula(s):** The button to accept all of the matched color formula on the list.

**4.Reject formula(s):** The button to reject all of the selected color formula on the list.

**5.Reset:** to reset the changes made for the formulas. Active only if color rematched in details area

**6.Save:** To save the changes. Active only if color rematched in the details area.

When **configurable items** button is clicked, following window is open up:

Select visibl	e items in mat	ching results	1	
📝 dE (D65)	📝 dE (A)	📝 dE(F11)	2	
🔲 L*(D65)	🔲 a*(D65)	🔲 b <b>*(</b> D65)	2	3
✓ dL*	<b></b> da*	<b>V</b> db*	Db 📃	🔲 dH
Colorant p	rice for one litre o	of paint (CNT pric	:e / I)	
Total price	for one litre of pa	aint (price / I)		
Abstract b	ase code (Abase)	)		
Metameric	(Me)			
Formula co	mponents			
Formula VC	DC (g / l)			
e e				🕑 Ok

**1.**The color difference equation with different light source. (D65, A, F11)

**2.**The color co-ordinate values (L\*, a\*, b\*) for D65 light source.

**3.**The color difference values for all co-ordinates (dL\*, da\*, db\*, dC, and dH) by using D65 light source and CMC 2:1 color difference equation.

**4.Colorant cost for one litre of paint:** The cost of the colorants in the formula. Unit of measure is currency unit used / litre.

**5.Total cost for one litre of paint:** The cost of the base and the colorants in the formula. Unit of measure is currency unit used / litre.

6.Abstract base code: The code of the abstract base.

**7.Metameric:** The metamerism value. The metamerism value is calcualted based on the selected color difference equation (CIEdE2000, CMC2:1, etc), by the sum of the color difference values with three lights (dE(D65)+dE(A)+dE(F11)).

**8.Formula components:** The base and the colorant codes and the values of the colorants in the formula.

**9.Formula VOC (g/l):** The amount of VOC components in the formula, colorant + bases, if set.

**Note:** Items selected here (check box is enabled) are displayed on the information section when details button is clicked.

When **Details** button is clicked, following items are available:

		t matched fo	rmulas						
roduct:	Exterior 240			▼ Unit:		an size:	0,251 -	Color difference:	CMC 2:1 -
olor Card:	Monicolor N	ova 720		Zone:	Default Zone		•	Configurable items	Details
Duucis	Colors	compauble pro	oucus					1)	
nformation								and the second second	
		dE (CMC 2:1) 0.85		AM 2.56					
									3
Matched Colo	ors	2	dF.	0,85 Opaci	ty dE: 3,48	VOC (g	/1):	Use s	elected
	F027	Mar Car	( olorar	nt Cost (1 / I):	0,03€	Total Co	ost (1 / l): 15,03	€ 👔 Calculat	e alt. formulas
	F029			Color	Formul	a	Delta chart	Reflectance chart	Details
	F031						Border tolerance:	1,00	
	F032		D65				Axis:	a*,b*	•
	F033							db* -2,0	
			Δ				da*	-1,0	
							-2,0 -1,0	0,0 1	,0 2,0
			_						
								-1,0	
			111						
					_			2.0	
势 Add to di	ispense queu	e 🕑	Accept al	Acce	pt formula(s)	Reject	formula(s)	🔅 Reset	Save

**1.Information:** The table to show detailed information on matched colors.

2.Matched colors: The table to show the list of matched colors.

 $\ensuremath{\textbf{3.}}$  The section to display detailed color information and button to rematch the color.

### When **Details** button is clicked, following items are available on the **Information** section:

Product       1       cs       Commatible oro       3       5       7       9         Base       Total cost / I       dE (CMC 2:1)       COE I       AM       COE 2       AM       COE 3       AM       COE 4         I       C       16,65 €       0.02       LT       3.07       RT       1.14       TT       1.96       XT       140         Matched Colors       dE:       0.02       Opacity dE:       3,54       VOC (g / I):       L         Matched Colors       dE:       0.02       Opacity dE:       3,54       VOC (g / I):       L         NOVA F027       Colorant Cost (1 / I):       1,65 €       Total Cost (1 / I):       16,65 €       C Cale         NOVA F031       Delta chart       Reflectance cha       Border tolerance:       1,00         A       OVA F033       A       Delta chart       Reflectance cha         A       OVA F033       A       Delta chart       Reflectance cha	: CMC 2:1
Informa       1       3       5       7       9         Base       Total cost / I       dE (CMC 2:1)       COL 1       AM       COL 2       AM       COL 3       AM       COL 4         I       C       1665 €       0.02       LT       1.07       RT       1.14       TT       1.96       XT       1.40         Matched Colors       Q       dE:       0.02       Opacity dE:       3,54       VOC (g / I):       L         Matched Colors       dE:       0.02       Opacity dE:       3,54       VOC (g / I):       L         I       NOVA F027       Colorant Cost (1 / I):       1,65 €       Total Cost (1 / I):       16,65 €       Cale         NOVA F023       D65       Color       Formula       Delta chart       Reflectance cha         MoVA F033       D65       A       Color       Formula       Delta chart       Reflectance:       1,00         A       D65       A       D65       A       D65	ems Detai
1       C       16,65 €       0,02       LT       1,07       RT       1,14       TT       1,96       XT       140         Matched Colors       2       4       6       6       8       8         Matched Colors       dE:       0,02       Opacity dE:       3,54       VOC (g / l):       1       1         NOVA F027       Colorant Cost (1 / l):       1,65 €       Total Cost (1 / l):       16,65 €       Gale         NOVA F029       Color       Formula       Delta chart       Reflectance cha         Border tolerance:       1,00         A       065       A       4       10	
2       4       6       8         Matched Colors       dE:       0,02       Opacity dE:       3,54       VOC (g / l):       L         NOVA F027       Colorant Cost (1 / l):       1,65 €       Total Cost (1 / l):       16,65 €       Gale         NOVA F029       Color       Formula       Delta chart       Reflectance cha         NOVA F031       D65       D65       db*       2,0         NOVA F033       A       0,00       0,00	AM
Matched Colors       dE:       0,02       Opacity dE:       3,54       VOC (g / l):       L         NOVA F027       Colorant Cost (1 / l):       1,65 €       Total Cost (1 / l):       16,65 €       Gala         NOVA F029       Color       Formula       Delta chart       Reflectance cha         NOVA F031       D65       D65       Axis:       a*,b*         0       NOVA F032       D65       Axis:       a*,b*	68
Matched Colors       dE:       0,02       Opacity dE:       3,54       VOC (g / l):       L         NOVA F027       Colorant Cost (1 / l):       1,65 €       Total Cost (1 / l):       16,65 €       Gala         NOVA F029       Color       Formula       Delta chart       Reflectance cha         NOVA F031       D65       D65       A       A       db*       2,0         NOVA F033       A       000       00       00       00	
Image: 10,02       Opadity de: 3,54       VOC (0/1):       Image: 10,02	J
Image: 10,02       Opadity de: 3,54       VOC (0/1):       Image: 10,02	
Colorant Cost (17):         1,55 €         Total Cost (17):         16,55 €         Image: Colorant Cost (17):	se selected
NOVA F031     Defa     Formula     Defa thart     Remectance cha       NOVA F032     D65     A     A     A	ulate alt. formula
NOVA F032         D65         Axis:         a*,b*           A         A         -2,0         -1,0         0,0	t Details
NOVA F032         Dos           NOVA F033         db*           4         -2,0	-
A A A A A A A A A A A A A A A A A A A	
A da* 1,0 da* -2,0 -1,0 0,0	
A	
-2,0 -1,0 0,0	
	1,0 2
10	
F11	
2,0	

**1.Base:** The column to display base paint used in the formula.

**2.Total cost:** The column to display the total cost of the formula. Unit of measure is currency unit used / litre.

**3.dE CMC 2:1):** The column to display the calculated color difference between target and matched color formula, using CMC 2:1 equation.

**4.COL1:** The column to display the 1st colorant name or code used in the matched formula.

**5.AM:** The column to display the amount of the 1st colorant used in the matched formula. Unit of measure as selected on the upper parts of the screen.

**6.COL2:** The column to display the 2nd colorant name or code used in the matched formula.

**7.AM:** The column to display the amount of the 2nd colorant used in the matched formula. Unit of measure as selected on the upper parts of the screen.

**8.COL3:** The column to display the 3rd colorant name or code used in the matched formula.

**9.AM:** The column to display the amount of the 3rd colorant used in the matched formula. Unit of measure as selected on the upper parts of the screen.

Note: Items displayed on this section are depending on choices made on the configurable items section.

roduct:	Exterior 2	2401 AAC		▼ Unit:	USI	1/192 🔻 0	Can size:	0,25	- C	olor differ	ence:	CMC 2:1
olor Card:	Monicolor	Nova 720		Zone:	Def	ault Zone			•	Configurat	ole items	Details
Products	Colors	Compatible proc	lucts									
Information												
	otal cost / 5,65 €	I dE (CMC 2:1)	1	AM 1.07	COL 2	AM 1.14	CO TT	L 3 1.96	AM	COL 4	AM 140.68	
atched Cold	55% 1	1	dE:	0,02 Opa	city dE:	3,54	VOC (g	(1):			Use sele	ected
		and the second second	Colora	nt Cost (1 / I):		1,65€	Total Co	st (1 / l):	16,65€		Calculate a	alt. formulas
				Color		Formu	1.2	Delta ch		flectance		Details
NOVA	F031							Border tol Axis:	erance:	_	00 •,b*	
NOVA	F032		D65					AXIS:		db* - 2,	<u> </u>	
NOVA	F033									ub 2,		
								da*		-1,	0	
			A					-2,0	-1,0	0,0	.0 1,0	2,
											,° /	
								-			,0	
			F11									
									_	2	,0	

**1.Matched colors**: The table to show the list of matched colors.

When **Details** button is clicked, following items are available on the **lower right hand side** section:

oduct:	Exterior 2	401 AAC		<ul> <li>Unit:</li> </ul>	US1	l/192 🔻 (	Can size:	0,251	<ul> <li>Color difference:</li> </ul>	CMC 2:1 🔻
lor Card:	Monicolor	Nova 720		▼ Zone	: Def	ault Zone			Configurable item	Details
Products	Colors	Compatible proc	lucts							
nformation										
		I dE (CMC 2:1)	1. Sec. 1. Sec		COL 2	AM	COL 3			AM
1 C 1	6,65 €	0,02	LT	1.07	RT	1.14	TT	1.96	XT 140.68	
NOVA NOVA NOVA NOVA	F029 F031		dE: Colora	0,02 ant Cost (1 / Co	Opacity dE:	3,54 1,65€ For	4	1 / l): 16 Delta chart rder toleran		te alt. filmulas
NOVA	F033		A		7	)	-2	da* ,0 -1,	db* -2,0 1,0 0 0,0 -1,0	1,0 2,0
			Fil							the part of the second s

**1.dE:** The text field to display the calculated color difference between target and matched color formula, using CMC 2:1 equation

**2.Opacity dE:** The text field to display the calculated color difference between color over white and color over black substrate of the matched color formula, using CMC 2:1 equation.

**3.Use selected:** The button to select the selected matched formula for use.

**4.Colorant cost:** The text field to display the colorant cost of the formula. Unit of measure is currency unit used / litre

**5.Total cost:** The text field to display the total cost of the formula. Unit of measure is currency unit used / litre.

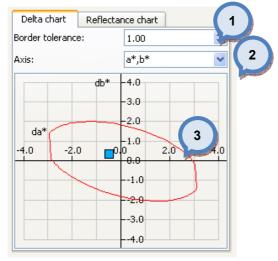
6.Calculate alternative formulas: The button to recalculate color formula.

**7.**The table to display visually the color difference by using different lights (D65, A, F11). Target color is displayed on the Color column, and calculated color based on the matched color formula is displayed on the Formula column.

**8.**The window to display matched color and the color tolerance area on the color difference chart and the reflectance chart. See next page for further details on this section.

9. VOC (g/l): Amount of VOC components in the selected formula

On the **color difference** (delta chart) **/ relectance** chart / details you have three tab pages with following options:



On the Delta chart, you have following options:

**1.Border tolerance:** The drop down list to select tolerance for border line.

**2.Axis:** The drop down list to select axis for the chart. Options are:  $(a^*, b^*)$ ,  $(L^*, a^*)$ , and  $(L^*, b^*)$ .

**3**. The chart to display the matched color and the tolerance window.

On the Reflectance chart, you have following options:

De	elta chart Reflectance chart NOVA K140
100	Formula
90	
80	
70	
60	
50	
40	
30	· / · · · · · · · · · · · · · · · · · ·
20	
10	
0	
	400 450 500 550 600 650 700

 ${\bf 4}. The chart to display the reflectance values for both matched color and the target.$ 

On the **Details chart**, you have selected coloristic values displayed in table format.

Delta char	t	Reflecta	ince chart	Details
		D65	Α	F11
dL*	0,00	)	0,00	0,00
da*	-0,0	)1	0,01	-0,02
db*	0,02	2	0,03	0,16
dC*	0,02	2	0,02	0,14
dH*	-0,0	)2	-0,40	-1,12
dE2000	0,02	2	0,03	0,14
CMC 2:1	0,02	2	0,03	0,19
CMC 1:1	0,02		0,03	0,19
CIE 1976	0,02	2	0,03	0,16

ses and colorar	nts		Matching settings					
ase code	In use		Settings template:	(	- 🔳 🗰	Matching rules		
A	<b>V</b>		Maximum dE (CMC D65):	2,00		Vise Colorant s	system ru	ules
			Number of colorants:	1 🗘 to 5	*	Use Colorant p	product r	ules
			Number of alternative formulas:	5 🗘		Weights:		
olorant	In use	-	Opacity			CMC dE(D65):	2,00	* *
FT	<b>V</b>			1,25		Cielab dE(A):	1,00	
KS	<b>V</b>		Opacity dE:	-		CIEIAD UL(A).	1,00	
LS	<b>V</b>		Wet film thickness:	150 µm ≑		Cielab dE(F11):	1,00	*
LT	<b>V</b>	=	Substrate:		•	Opacity DE:	3,00	<b></b>
MM	<b>v</b>	=				opucity DE.	3,00	
MS	<b>V</b>		Unit:	m	•	Colorant price:	10,00	* *
MT	<b>V</b>					Colorant priority:	2,00	-
PT	<b>V</b>		Minimum allowed colorant volume:	0,08		colorant phoney.	2,00	
RS	<b>V</b>		Can size:	0,251	▼	Colorant pairs:	4,00	*
RT	<b>V</b>					Sensitivity:	1,00	-
ST	<b>V</b>		Zone:	Default Zone	•		2,00	
TT	<b>V</b>	-						

### When **Calculate alternative formulas** button is clicked, matching setting window opens up

and after matching the following window opens up

Only the	most recen	t matched for	mulas										
Product:	Exterior 24	Ю1 AAC		▼ Unit:		US 1/192	▼ Car	n size:	0,25	il → 0	olor diffe	erence:	CMC 2:1
Color Card:	Monicolor N	lova 720		▼ Zone	: [	Default Z	one			•	Configura	able items	Details
Products	Colors	Compatible prod	lucts										
Information													
Base T	otal cost / I	dE 1	COL 1	AM	COL	2	AM	CO	L 3	AM	COL 4	AM	
	6,65 €	0,02	LT	1.07	RT	1.14		TT	1.96		XT	140.68	
2 C 1	6,69 €	0,02	MT	1.52	RT	1.23		ST	1.35		XT	144.0	
	6,69 €	0,01	MT	0.77	RT	1.6		TT	1.64		XT	144.0	
	6,70 €	0,19	LT	2.54	ST	1.79		XT	144.	0			
5 C 1	6,72€	0,03	FT	2.31	MT	1.3		RT	2.6		XT	144.0	3
Matched Col	ors		dE:	0,19	Opacity dE	: 3	,65	VOC (g	/ I):			Use sele	ected
NOVA	F027		Colore	-1 C 1 (1 (	n.			Tables				Coloriate a	alt. formulas
			Colora	nt Cost (1 /	0:	1,	70 €	lotal Co	st (1 / l):	16,70€		Calculate a	alt. formulas
	F029			Co	lor		Formula		Delta c	hart Re	eflectance	e chart	Details
	F031								Border to	lerance:	1	1,00	
									Axis:		-	a*,b*	2
NOVA	F032		D65						AXIS.				
	F033										db* -2	2,0	all states in the
	1055												
									8 8 8	0	-	r,0	
			A						da*	1			
									-2,0	-1,0	0	0,0 1,0	2,0
											- <b>'</b>	0,0	
									3		$\searrow$	1,0	
			F11										
												2,0	
Add to d	lispense quei	Je 🦪	Accept a		Accept fo	rmula(s)		Reject f	ormula(s)		Reset		M Save
			1000								¥		

**1.Information:** The alternative color formula are displayed on the table. One highlighted green, is the chosen formula. One highlighted blue, is the one under evaluation (see point 3).

**2.**The colors of the alternative formula are displayed on the graphs.

3.Use selected: will change the formula

**Colors** tab is made to speed up process of assigning formulas to multiple products at one time. On the **Colors tab** page, you have the following items available:

Only the	most recent matched formulas						
Product:	Exterior 2401 AAC	▼ Unit:	US1/192 🔻 C	an size:	0,251 🔻	Color difference:	CMC 2:1 -
Color Card:	Monicolor Nova 720	▼ Zone:	Default Zone		•	Configurable items	Details
Products	Colors Compatible products						
Color(s):		Under work formulas fo	or color:		-ormula Details	2	
NOVA		1: C - LT, TT, XT, ZT			Base code:	and the second sec	С
					Abstract base of	ode:	С
NOVA					Base fill:		225,00 ml
NOVA	F033	1			Code Form	iula	
		and the second second			LT 0.01		
					TT 0.03		
					XT 1.28		
					ZT 0.0		-
					21 0.0		]
					Dispense		Print label
		compatible products:		L.			
		Product name	Uses this	Uses other	3		
		Exterior 2401 AABC			and the second second		
		Exterior 2401 AAC					
		Interior 2401 AABC		<b>v</b>			
		Interior 2401 AAC		<b>V</b>			
Add to d	ispense queue	all 🕑 Accept fo	ormula(s)	Reject form	nula(s)	🔅 Reset	Save

1.Color(s): Matched colors and formulas linked to them

**2.Formula details:** Detailed information about selected formula.

**3.Compatible products:** Alternative products, which could use the same formula.

oduct:	Exterior 2401 AAC	•	Unit:	US1/192 🔻	Can size:	0,251 🔻	Color difference:	CMC 2:1
or Card:	Monicolor Nova 720	•	Zone:	Default Zone		•	Configurable items	Details
oducts	Colors Compatible produ	ucts						
olor(s):	(1)	Under	work formulas f	or color:	2	Formula Details		
NOVA	The contract	1: C	- LT, TT, XT, ZT	and the	ter ( cold and the second s	Base code:		С
						Abstract base o	ode:	С
						Base fill:		225,00 ml
NOVA	F033					Code Form	ula	
						LT 0.01		
						TT 0.03		
						XT 1.28		
						ZT 0.0		
						S Dispense		Print label
		Comp	atible products:					FILITE IADEI
		Proc	luct name	Uses this	Uses other			
		Exter	ior 2401 AABC					
		Exter	ior 2401 AAC					
		Inter	ior 2401 AABC		<b>V</b>			
		Inter	ior 2401 AAC					

# The following options are available on the **color(s) area**:

1.Color(s): Color that has been matched

**2.Under work formulas for color:** This list contains all the formulas matched for the selected color.

luct:	Exterior	2401 AAC	▼ Unit:	US1/192 🔻	Can size:	0,251  Color differen	nce: CMC 2:1 🔻
or Card:	Monicolo	r Nova 720	▼ Zone:	Default Zone		<ul> <li>Configurable</li> </ul>	e items Details
roducts	Colors	Compatible products					
olor(s):			Under work formulas fo	or color:		Formula Details	1
NOVA			1: C - LT, TT, XT, ZT			Base code:	С
					3	bstract base code:	C
					No. of Concession, Name	Base fill:	225,00 ml
NOVA	F033					Code Formula	
						LT 0.01	
						TT 0.03	5
							Procession of the second se
						XT 1.28	
					6	6 ZT 0.0	7
							7
			Compatible productor				7
			Compatible products:			6 ZT 0.0	
			Compatible products:	Uses this	Uses other	6 ZT 0.0	
					Uses	6 ZT 0.0	
			Product name	this	Uses other	6 ZT 0.0	
			Product name Exterior 2401 AABC	this	Uses other	6 ZT 0.0	
			Product name Exterior 2401 AABC Exterior 2401 AAC	this	Uses other	6 ZT 0.0	

## The following options are available on the Formula details area:

- 1.Base code: Base code of the formula
- 2.Abstract base code: Abstract base code of the formula
- 3.Base fill: Amount of the base material in the can
- 4.Formula: colorant component and their amounts

**5.Formula warnings:** Warning messages if the formula violates matching rules

- 6.Dispense: The button to dispense formula (requires tinting machine)
- 7.Print label: The button to print label

oduct:	Exterior	2401 AAC	•	Unit:	US1/192 🔻	Can size:	0,251 🔻	Color difference:	CMC 2:1
lor Card:	Monicolo	r Nova 720	•	Zone:	Default Zone		•	Configurable items	Details
Products	Colors	Compatible products							
Color(s):			Unde	er work formulas f	for color:		Formula Details		
NOVA	F027		1: 0	C - LT, TT, XT, ZT			Base code:		С
							Abstract base of	ode:	С
							Base fill:		225,00 ml
	F033						Code Form	ula	
							LT 0.01		
							TT 0.03		
							XT 1.28		
							ZT 0.0		
							🔥 Dispense		Print label
			Com	patible produ	1 2	3	Dispense		finciabei
			Pro	duct name	Uses	Use	and the second s		
			Evte	erior 2401 AABC	this	other			
				erior 2401 AAC					
			Inte	erior 2401 AABC					
			Inte	erior 2401 AAC					

## The following options are available on the **Compatible product** area:

**1.Product name:Color(s):** Product name to which formula selection can be made.

**2.Uses this:** Check box is enabled if the product uses selected formula.

**3.Uses other:** Check box is enabled if the product uses some other formula than the selected.

	Exterior 2401 AA	-	Unit:	US1/192 🔻	Can size:	0,251 👻	Color difference:	CMC 2:1
or Card:	Monicolor Nova 7	20 💌	Zone:	Default Zone		•	Configurable items	Details
reaucts	Colors Compa	tible products						
ormulas:			<ul> <li>At</li> </ul>	least one formul	a 🔘 All for	rmulas		
olor code	*	Products	Produ	ict name	In use	Formulas		
NOVA	F027	4	Exteri	or 2401 AAC		1		
NOVA	F029	4	interi	or 2401 AABC		1		
	F031	4 1	interi	or 2401 AAC		1 2	¢.	
	F032	4	Exteri	or 2401 AABC		1		
	F033	4						

On the **Compatible products tab** page, you have the following items available:

**1.Formulas:** Color and number of products having a formula available.**2.Details:** Products using the selected color and formulas linked to it.

## 3.3.4 Color correction

In the Color correction page, you can view color details, and make color correction on color formula or batch of tinted paint.

along the second se	only dispensed but	not controlled colo	ors		Color diffe	erence:	CMC 2:1	
Color card:	Monicolor Nova 720		•	🤣 Refresh		Change	Formula	Correction
Color:	NOVA F016		•	🌗 Add	D65			
Froduct:	Exterior 2401 AABC	н () А. ()	•		A			
listory:	Current version (16	.9.2005 3:00:00)	•	2				
lotes:	<b>4</b> L				11			
tatus:	CONTROLLED AND	ACCEPTED			Cost	0,00 €	0,00 €	0,00 €
l ase code:		stract base: AA	*		Costall	0,00 €	2,25 €	2,25 €
Can size:	0,11 🔻 Uni	t: US1/19	2 ▼			- 		
Zone:	Default Zone		-	New form	Color	Compatible prod	ucts Visual	Refl Numerica
		<b>R 1 1 1 1 1 1 1</b>			rder t	olerance:	2,00	
Correction		Batch (colorants)	-		Axis:		a*,b*	
Code AA	Formula 584.38	Change	New 584.38	Opt			db* -2,0	
_			1.120191201104					
MT	0.6		0.6	>•<			-1,0	
	0.2		0.2	>•<	da*			
TT								
TT FT	0.1		0.1	>•<	-2,0	-1,0	0,0	1,0 2
E	0.1		0.1	>•<	-2,0	-1,0	0,0 0,0	1,0 2
E	0.1		0.1		-2,0	-1,0	0,0	1,0 2
E	0.1		0.1		-2,0	-1,0	0,0 0,0 1,0	1,0 2
E	0.1		0.1		-2,0	-1,0	0,0	1,0 2
E	0.1		0.1		-2,0	-1,0	0,0	1,0 2
FT	585.28				-2,0	-1,0	0,0	1,0 2

- 1.Color Selection area:
- **2.Color Difference table:**
- **3.Color Correction:**
- 4.Color details tabs:
- 5.Color measurement and approval:

Show or	nly dispensed bu	it not controlled	colors	2	Colo diffi	erence:		CMC 2:1	S.	
Color card:	Aquatec SF	4		Refresh	5	Change		Formula		Corre
Color:	12			Sector Add	D65				2,61	L
Product:	Exterior 2401 AAB	с		7	A				2,11	L
History:	Current version (3	1.3.2000 3:00:00)		and the second sec	F11				3,25	
Notes:	NC		9		F11				3,23	)
	CONTROLLED AND			11	Cost	0,00	0,25		0,25	5
Base code:		tract base: C			Costall	0,00	3,63		3,63	3
Can size:	0,251 🔻 Unit	: US1/3	84	13 14	Color					1
Zone:	Default Zone		-	Thew formula	11 STORY	Compatible pro	ducts	Visual	Refl	Nu
	Formula ()	Batch (colorante	Batch (h:	ase and colorants)	- 1 20 20 20 20 20 20 20 20 20 20 20 20 20	olerance;		2,00 a*,b*		
Correction:										
Correction:					Axis:		db*			
Code	Formula	Change	New	Opt	Axis:		db*	-2,0		
Code C	Formula 2921.88		New 2921.88	Opt			db*			
Code C	Formula 2921.88 74.0		New 2921.88 74.0	Opt			db*			
Code C	Formula 2921.88		New 2921.88	Opt			db*	-2,0		
Code C	Formula 2921.88 74.0		New 2921.88 74.0	Opt	da*	-1,0	db*	-2,0	1,0	
Code C TT FT	Formula           2921.88           74.0           72.0		New 2921.88 74.0 72.0	Opt				-2,0	1,0	
Code C TT FT VT	Formula 2921.88 74.0 72.0 40.0		New           2921.88           74.0           72.0           40.0	Opt	da*			-2,0	1,0	
Code C TT FT VT	Formula 2921.88 74.0 72.0 40.0		New           2921.88           74.0           72.0           40.0	Opt	da*			-2,0 -1,0 0 -0,0	1,0	
Code C TT FT VT	Formula 2921.88 74.0 72.0 40.0		New           2921.88           74.0           72.0           40.0	Opt	da*			-2,0	1,0	
Code C TT FT VT	Formula 2921.88 74.0 72.0 40.0		New           2921.88           74.0           72.0           40.0	Opt	da*			-2,0 -1,0 0 -0,0	10	-

**1.Show only dispensed, but not controlled colors:** If the check box is on, only formulas with "control" status shown.

2.Refresh: The button to clear the view

3.Color Card: Dropdown list to select color card

**4.Color:** Dropdown list to select color. Works also as text field to search colors (click on the search icon to activate search)

#### 5.Add:

**6.Product:** Dropdown list to select the product

**7.History:** Dropdown list to select version of the formula. Options are, If available, Current version, LAB history

8.Notes: text field for formula comment

9.Status: Status of the formula, possible statuses are:

Review: Default status for new formula

**Accepted:** The status for the formula which has not been dispensed, and has been accepted without review with real drawdown. The formulas that are imported from the external file or the database without any status, will have this status.

**Dispense:** The status for the formula which is placed in to the dispensing queue.

**Control:** The status for the formula which is dispensed and is waiting to be accepted or rejected.

**Controlled and accepted:** The status for the formula which is dispensed and after review it has been accepted.

**Rejected:** The status for the formula which has not been dispensed, and has been rejected without review with real drawdown.

**Controlled and rejected:** The status for the formula which is dispensed and after review it has been rejected.

## 10.Base code:

## 11.Abstract base:

12.Can size: Dropdown list to select can size

- **13.Unit:** Dropdown list to select unit of measure
- 14.New formula: The button to create new formula
- **15.Zone:** Dropdown list to select zone

On the **Color difference table** area, following options are available:

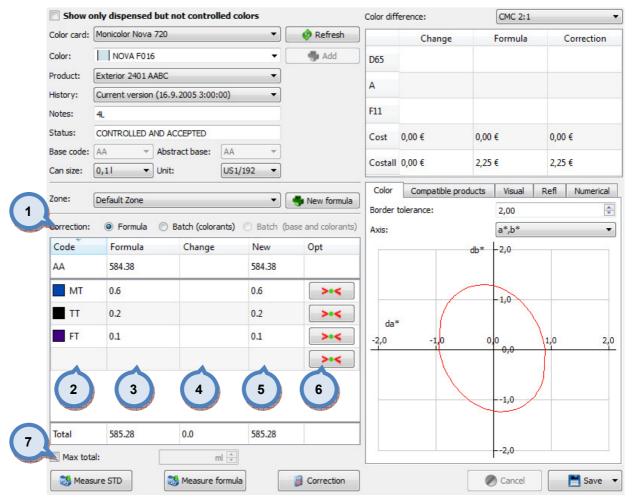
Color card:	Monicolor Nova 720		•	🛛 🤣 Refres	2	Change	Formula	Correction
Color:	NOVA F016		•	Add	D65			
Product:	Exterior 2401 AABC		•					
History:	Current version (16.9	9.2005 3:00:00)	•		A			
Notes:	4L				F11			
Status:	CONTROLLED AND A	CCEPTED			Cost	0,00 €	0,00 €	0,00 €
Base code: Can size:	AA  v Abst	ract base: AA	▼ 1/192 ▼		Costall	0,00 €	2,25 €	2,25 €
Zone:	Default Zone		•	New formula	Color	Compatible proc	ducts Visual	Refl Numerical
						tolerance:	2,00	×
Correction:		- Katasa		(base and colorants)	Axis:		a*,b*	+
Code	Formula	Change	New	Opt			db* -2,0	
AA	584.38		584.38					
MT	0.6		0.6	>•<			-1,0	
TT	0.2		0.2	>•<	da*	. (		
FT	0.1		0.1	>•<	-2,0	-1,0	0,0	1,0 2,0
				>•<	<u> </u>		0,0	
						$\langle \rangle$		1
							-1,0	
Total	585.28	0.0	585.28					
Max tota	al:	ml 🛓	]				2,0	
😽 Meas		Measure formu		Correction	]		Cancel	Save •

**1.Color difference:** Dropdown list to select color difference equation. Possible options are:

- de2000
- CMC 1:1
- CMC 2:1
- CIE 1976

**2.Color Difference table:** Table to present basic information about the formula and its correction. Color difference is shown in three different light sources and Cost=colorant cost, Costall = colorant +base cost.

1



On the **Color correction** area, following options are available:

**1.Correction:** Radio buttons to select type of correction method. Options are Formula and Batch (not to increase colorant volumes)

**2.Code:** Compenent of the formula, base(s) and colorants. Click on the cell will open dropdown list to select alternative colorants.

3.Formula: Current formula

4.Change: Change of the formula (either by correction or manual change)

5.New: New formula, the sum of Formula (3) and Change (4)

**6.Opt:** Button to optimize formula based on selected colorant (correction must have been done first)

7.Max total: Threshold value not to exceed during the correction.

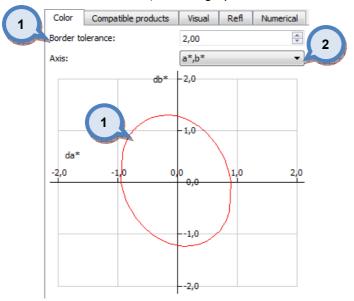
On the **Color details tab** area, following tab-pages are available:

Show o	only dispensed b	ut not controlled o	olors		Color dif	fference:	CMC 2:1	-
Color card:	Monicolor Nova 72	20	•	🤣 Refresh	]	Change	Formula	Correction
Color:	NOVA F016		•	s Add	D65			
Product:	Exterior 2401 AAE	BC	•					
History:	Current version (	16.9.2005 3:00:00)	•		A			
Notes:	<b>4</b> L				F11			
Status:	CONTROLLED AND	D ACCEPTED			Cost	0,00 €	0,00 €	0,00 €
Base code:	AA v	Abstract base: AA	-					
Can size:	0,1I ▼ U	Jnit: US1	/192 🔻	1	Costa	2	3 4	5
Zone:	0.6.1.7				Color	Compatible pro	oducts Visual	Refl Numerical
20116.	Default Zone		•	🌗 New formula	Border	tolerance:	2,00	* *
Correction:	Formula (	Batch (colorants)	🔘 Batch (	base and colorants)	Axis:		a*,b*	•
Code	Formula	Change	New	Opt			db* -2,0	
AA	584.38		584.38					
МТ	0.6		0.6	>•<		/	-1,0	
тт 🔳	0.2		0.2	>•<	da	. (	1,0	
FT	0.1		0.1	>•<	-2,0	-1,0	0,0	1,0 2,0
				>•<			0,0	
-								]
							-1,0	
							-	
Total	585.28	0.0	585.28		1			
Max tot	al:	ml 🛓					-2,0	
😽 Meas	sure STD	S Measure formul	a	Correction	]		Cancel	Save 🔻

1.Color:

- 2.Compatible products:
- 3.Visual:
- 4.Refl:
- 5.Numerical:

On the **Color tab**, following options are available:



 $\ensuremath{\textbf{1.Border tolerance:}}\xspace$  limit to display on the chart. Anything within the border are "acceptable"

**2.Axis:** Dropdown list to select the view for the below chart. Possible axes to choose from are:

- a\*, b\*
- L\*, a\*
- L\*, b\*

On the **Compatible products tab**, following options are available:

Color	Compatible products	Visual 2	Nul 3
Product	t name	Uses this	Uses other
Exterior	2401 AAC	<b>V</b>	
Interior	2401 AABC	<b>V</b>	
Interior	2401 AAC		

**1.Product name:** The list of the compatible products i.e. Shares the same Abstract base.

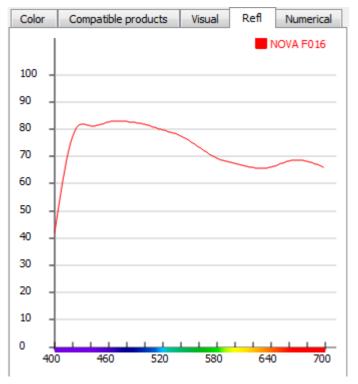
**2.Uses this:** When check box is enabled product is using selected formula.

**3.Uses other:** When check box is enabled product is using other than selected formula.

On the **Visual tab**, RGB representations of the Formula, standard and Corrected formula in multiple light sources is shown. Light sources are Daylight (D65), Incandescent (A) and Fluorescent (F11) following tab-pages are available:

Color	r Compatible pro	ducts Visual	Refl	Numerical
	Formula	SDT	(	Corrected
D65				
A				
F11				

On the **Refl tab**, reflectance view is shown: It displays, if possible, reflectance curve of the formula, standard and corrected formula.



On the Numerical tab area, following options are available	On	the	Nume	rical 🗄	tab	area,	following	options	are	available
--	----	-----	------	---------	-----	-------	-----------	---------	-----	-----------

	STD	Formula	Correction
L*	89,22	-	-
a*	-5,86	-	-
b*	-5,09	-	-
C*	7,76	-	-
H*	220,98	-	-
Х	68,06	-	-
γ	74,64	-	-
Z	87,02	-	-
dE2000		-	-
CMC 2:1		-	-
CMC 1:1		-	-
CIE 1976		-	-

**1.Color difference table:** Coloristic values of the Standard, formula and corrected formula. Formula and Corrected formula are presented as difference to the standard.

**2.Light sources:** Tabs to select light source to view detailed color differencies.

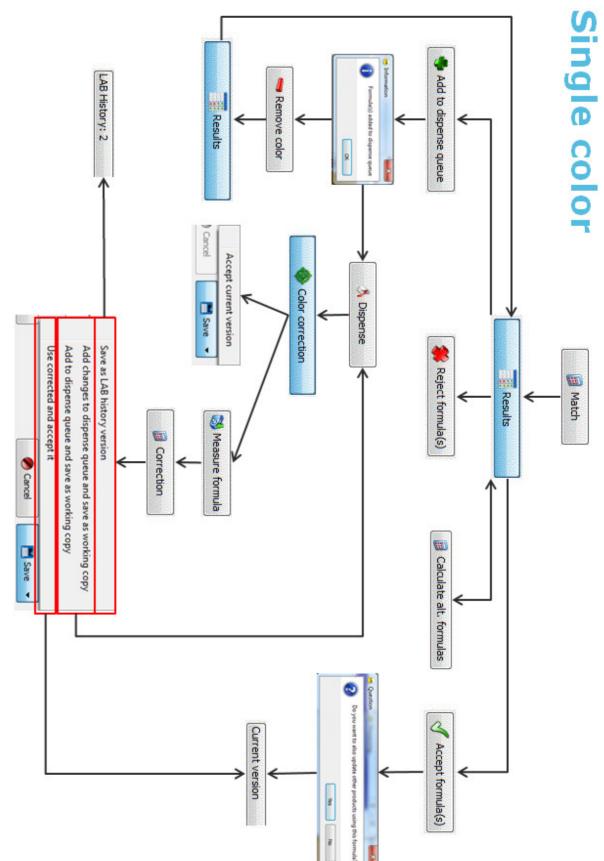
On the Color measurement and approva	I area, following options are	available:
Show only dispensed but not controlled colors	Color difference:	CMC 2:1

Show o	only dispensed but	t not controlled o	olors		Color diff	ference:	CMC 2:1		
Color card:	Monicolor Nova 720		•	🤣 Refresh		Change	Formula		Correction
Color:	NOVA F016		•	s Add	D65				
Product:	Exterior 2401 AABC		•		A				
History:	Current version (16	.9.2005 3:00:00)	•		A				
Notes:	4L				F11				
Status:	CONTROLLED AND	ACCEPTED			Cost	0,00 €	0,00 €	0,00	(€
Base code: Can size:	AA         ▼         Ab           0,11         ▼         Un	stract base: AA it: USI	▼ 1/192 ▼		Costall	0,00 €	2,25 €	2,25	i€
-				-	Color	Compatible prod	ucts Visual	Refl	Numerical
Zone:	Default Zone		•	🌗 New formula	Border	tolerance:	2,00		
Correction:	🖲 Formula 🔘	Batch (colorants)	🔘 Batch (t	base and colorants)	Axis:		a*,b*		•
Code	Formula	Change	New	Opt			db* 2,0		
AA	584.38		584.38						
МТ	0.6		0.6	>•<			-1,0		
TT	0.2		0.2	>•<	da*	. (	1,0		
FT	0.1		0.1	>•<	-2,0	-1,0	0,0	1,0	2,0
				>•<			0,0		
							1,0		
Total	585.28		585.28	3			4		5
S Meas	sure STD	Measure formu	la	Correction			Cancel		Save 🔻

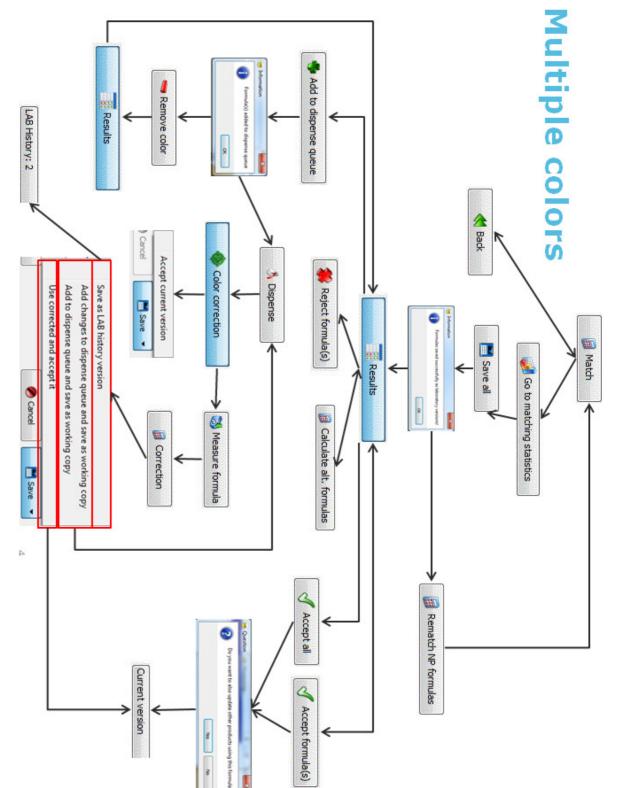
**1.Measure STD:** The button to measure standard. If the standard hs measured in, it's not mandatory to measure it again.

- 2.Measure formula: The button to measure formula.
- 3.Correction: The button to calculate correction to the formula
- 4.Cancel: The button to cancel all the changes for the formula
- **5.Save:** The button to save the formula. Save button has following options.
- Save as LAB history version
- Add changes to dispense queue and save as working copy
- Add to dispense queue and save as working copy
- Use corrected and accept it.

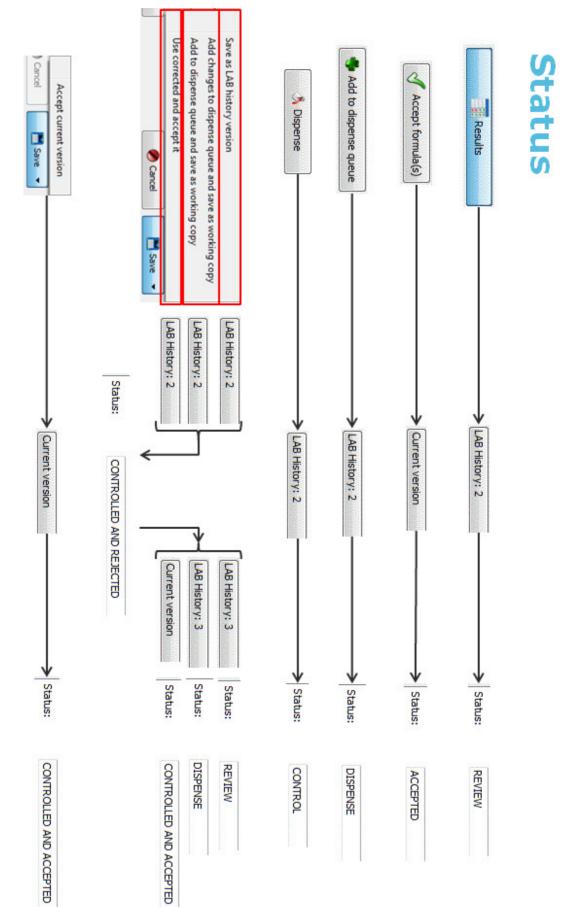
# Flow chart of matching single color



# Flow char of matching multiple colors



Different statuses



#### 3.3.5 Dispense queue

In the **dispense queue** page, you can see all colors ready to be dispensed.

In the **dispense queue** page, you have the following options available:

roduct:	Exterior 2401 AAC	and the state of the	•		
olors in Queue			Formula		4
Color code	Base code	2 Abstract base code	Base cod	e:	С
NOVA F027	c 🎽	C		base code:	5
NOVA F029	с	С	Can size:		0,11
NOVA F031	с	С	Unit:		m
NOVA F032	с	с	Code	Formula 0.16	
	de Abstract base cod	∈ 3			
	6		7	8	9
© Export	and set of the set of	Remov		nt cabel	🐧 Dispens

1.Product: The drop down list to select the product.

**2.Colors in queue:** The list of formula on the dispensing queue.

**3.Recently dispensed:** The list of the previously dispensed formula from the LAB program.

**4.Formula:** The text boxes to display base code and abstract code of the formula selected.

**5.Can size and Unit:** The drop down lists to select can size for dispensing and unit for display.

6.Export: The button to dispending queue info into the text file.

**7.Remove color:** The button to remove a formula from the dispensing queue.

8.Print label: The button to print a label for selected color formula.

9.Dispense: The button to start dispensing process.

## 3.4 Fill RGB(s)

In this page you can calculate RGB values for the not measured formulas by using the product characterization data. This function is used to display the formula color in the Basic and the professional versions when the matching engine is not used.

In the **Fill RGB(s)** page, you have the following options available:

Products used for filling RGB-values:	
Product name	Selected
Exterior 2401 AABC	
Exterior 2401 AAC	2
Interior 2401 AABC	
Interior 2401 AAC	
Calculate RGB values for formulas if missing one.	
0%	

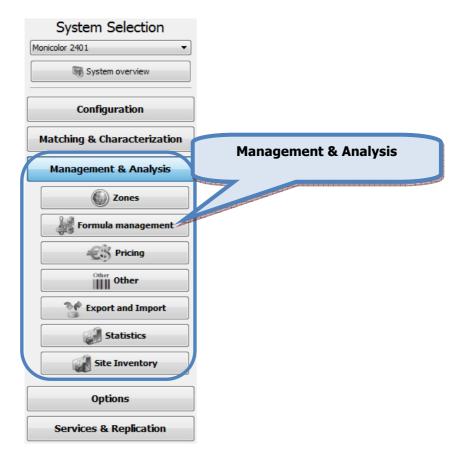
**1.Product:** The list of the products.

**2.Selected:** When the check box is enabled, this product is used to calculate the RGB values for the formulas missing color data.

3.Start: The button to start the calculation.

# 4 Management & Analysis

In Management & Analysis section, you can make zone configurations, view and edit formulas, set pricing, manage bar codes, execute data import and export, and to view statistics of your activities.



#### 4.1 Zones

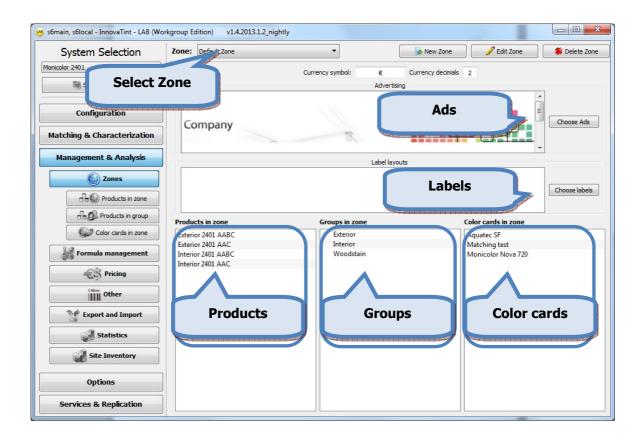
To make zone configurations, navigate into the **Management & Analysis** *⇒* **Zones** page.

In Zones page you can:

- Create and edit zone names
- > Edit currency symbols and decimals used in zones
- View products, groups, and color cards in zones
- > Add an advertizing material to be shown in the POS software
- Control labels

Zones page has three sub pages, in which you can:

- Set products to zones
- Set groups to zones
- Set color cards to zones



With zone function, you can create combinations of products, colorants, and color cards to be used in predefined zones. When predefined zone is selected for Innovatint Shop installation package, user cannot see other products, colorants, or color cards, which do not below to this zone. This function allows you to create pre-set combinations for resellers, distributors, as well as for individual POS agents. You can also give alternative names of the products, colorants, and color cards (and colors within color card), to be used in zones in this section. For all components, you can also set different pricings, and currency based on zone.

Note that database must include at least one zone, i.e. default zone, but there is no upper limit for the maximum number of zones.

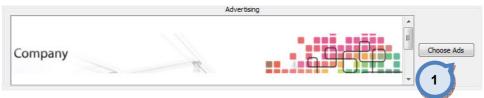
Zones can also be set by a paint company. And zone setup can be done based on geographical location or by customers. And finally, zones do not have any internal hierarchy among others.

In the upper part of the **Zones** window (and all sub pages under Zones), you have the following options available:

rkgroup Edition) v1.4.	2013.1.2_nightly
Zone: Default Zone	Image: New Zone     Image: Edit Zone     Image: Delete Zone       1     symbol:     €     Currency di     2     3     4
	<b>1.Zone:</b> The drop down list to select a zone.
	2.New Zone: The button to create a new zone (name).
	<b>3.Edit Zone:</b> The button to edit the name of a zone (selected from the zone list (1).

**4.Delete Zone:** The button to delete the name of a zone (selected from the zone list (1).

The advertising material or banners for the POS software can be set with the Choose Ads button (1).



When the **Choose Ads** button is clicked, the following options are available in the Advertising window:

Advertising images:		
COROB InnovaTint		
	8	R
ORDERS Net	v order (F2) ORDER NUMBER: ORDER DATE:	Edit customer a
ASF 1010		
•		
Succested image resolution: 20	148 × 204 Image resolution: 2048 x 205 Mage aspec	t ration: Set as main banner
Pc Image 1 Careary	9 7	6
	3 4	
Notices and the second		

1.Add image: The button to add new pictures in to the picture browser list.

2.Change image: The replace a main banner picture with new picture.

3.Delete image: The button remove a picture from the picture browser list.

**4.**The arrow buttons **I** to set the order of the pictures in the list. The order of the pictures in the list determines the order of rotation in the POS software banner area.

5. The picture browser list.

**6.Set as main banner**. The button to set selected picture (from the picture browser list (5) as main banner picture.

**7.**The traffic lights to indicate if the image resolution and aspect ratio are matching the picture size to fit into the banner area. The green light indicates the perfect match, and the red light indicates total mismatch. When the yellow light is visible, the match is not perfect but the image is usable.

**8.**The preview area for the banner image as displayed in the POS software.

9.Display time: Time in seconds how long selected banner/ad will be shown.

**Note:** All pictures in the Picture browser are shown in the Innovatint Professional and Ultimate version with rotating or looping manner. In the Innovatint Basic version, on the main banner is displayed.

## The label templates for the POS software can be set with the Choose labels button (1).



When the  $\ensuremath{\textbf{Choose labels}}$  button is clicked, the following options are available in the labels window:

Label Layouts		
Label Layouts:		
medium100_60.ept		
2	3 4	
New	🖣 Add existing	🤡 Export
😫 Preview	Change	🆇 Delete
5	6 Cancel	d ok

- **1.Label layouts:** List of label templates available for POS users.
- **2.New:** Opens EasyLabel software to create new label template.
- 3.Add existing: Opens a window where to choose from available templates
- 4.Export: Saves selected template to hard drive
- 5.Preview: Displays selected template in a preview window.
- 6.Change: Opens selected template in a EasyPrint software on edit stage.
- **7.Delete:** Deletes selected template from the database.

**Note:** Only EasyLabel label templates may be distributed via database, alternative solution Anylabel is not supported.

Note: EasyLabel manual is in appendix1

# 4.1.1 Products in zone

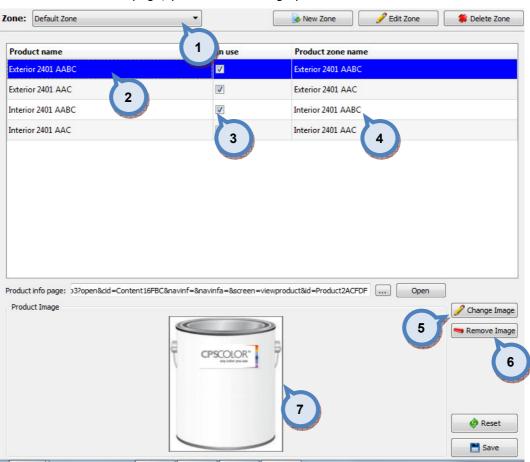
To make products in zones configuration, navigate into the **Management & Analysis ⇒ Zones ⇒Products in zone** page.

In products in zones page you can:

- > Set products to be used in zones
- Edit product names used in zones
- > Edit and remove product pictures in zones

In products in zones page you can also create and edit zones.

In this page, you can define which **products** are included in zone. You can also set a product picture, for each product to be displayed at POS when using this product in dispensing. You can also rename products used in zone.



In **Products in zone** page, you have following options available:

**1.Zone:** The drop down list to select the zone.

2.Product name: The list of all products in the system.

**3.In use:** When the check box is enabled, the product is used in the selected zone.

**4.Product zone name:** The name of the product used in selected zone. The product can have different names (displayed on the screen) on different zones.

**5.Change Image:** The button to set new picture displayed along the product (on the selected zone) on the screen.

**6.Remove Image:** The button to remove a picture displayed along with the product (on the selected zone) on the screen.

**7.Product Image:** The window to display product picture of selected product (if already set).

🥶 Images	e contractory	? <mark>x</mark>
Images:		
	CPSCOLOR stry color you see	
		2 Delete image
anstron 1		
4		3
Add image		Cancel J Ok

When **Change Image** button is clicked, the following options are available:

**1.Image:** The image which is already set for selected product (if done already).

**2.Delete image:** The button to remove a picture displayed along with the product.

**3.Image list:** The list (pictures) of the images already uploaded into the program.

4.Add image: The button to add new image to image list (3).

When Add Image button is clicked, the followi	ving options are available
---	----------------------------

Open *jpg or *.bmp file(s)					X
🔾 🗸 😼 🕨 Computer 🔸 Local Disk (C:) 🕨 Program P	iles 🕨	COROB InnovaTint Lab (Workgroup edition) +		Search COROB Inn	ovaTint Lab 🔎
Organize 🔻 New folder			1	E	• 🔳 🔞
💔 Dropbox	^	Name	Date modified	Туре	Size
Recent Places		퉬 AnyLabel	3.1.2013 6:37	File folder	
IBackman SkyDrive		퉬 iconengines	3.1.2013 6:37	File folder	
Skyblive		퉬 icons	3.1.2013 6:37	File folder	
📁 Libraries		鷆 imageformats	3.1.2013 6:37	File folder	
Documents	=	鷆 InnoSetup	3.1.2013 6:37	File folder	
Music		퉬 Localisation	3.1.2013 6:37	File folder	
Pictures		퉬 MainData	3.1.2013 6:37	File folder	
Videos		🎍 scripts	3.1.2013 6:37	File folder	
5.10 ·····		\mu tcl	3.1.2013 6:37	File folder	
🖳 Computer					
🚔 Local Disk (C:)					
5D (D:)	-				
File name:			•	*.jpg;*.bmp;*.png	•
			,	Open 🔻	Cancel

**1.Open:** The selector window to search and select the image file to be uploaded.

# 4.1.2 Products in group

To make products in group configuration, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Products in groups** page.

In products in groups page you can:

- Create and edit group names
- > Add and remove products in groups
- > Define the order of the products in the tree manu

In products in groups page has two tab pages:

- Group products
- Group image

In products in groups page you can also create and edit zones.

Product groups can be used to group similar kind of products to be used as set. Product groups can be set e.g. by product properties, like: interior quality / exterior quality.

Zone:	Default Zone	New Zone	🖋 Edit Zone	🍀 Delete Zone
-	Oups         Exterior         Exterior 2401 AABC         Exterior 2401 AABC         Interior 2401 AAC         Interior 2401 AAC <t< td=""><td>Group products Group image Filter ts by name: Group prod tab pag</td><td></td><td></td></t<>	Group products Group image Filter ts by name: Group prod tab pag		
Ad	ld Group 👔 Up Down 🌒 🗱 Delete Group		Reset	Save

In the **Products in group** page, you have the following options are available:

**1.Group list:** The list of already set groups and products within. Use + and – buttons (in front of group name) to display/hide products in the group.

**2.Group products:** The list of non-selected products (when group is selected from the list (1).

**3.Arrow buttons:** The buttons to add and remove products in group.

**4.Add group:** The button to create new group.

**5.Up / Down:** The buttons to sort products within the group list.

**6.Delete Group:** The button to delete selected group.

Zone:	Default Zone 🔻	🕞 New Zone 🔗 Edit Zone 🗍 🌾 Delete Zone
4 Gr		Mew Zone     Edit Zone     Pelete Zone     Polete Zone     Group products     Group image     Group image     Core tab page     2
		Remove Group image
Ad	d Group 👔 Up Down 🌢 🎆 Delete Group	🔅 Reset 📑 Save

In the **Products in group** page, you have the following options are available:

1.Group list: The list of already set groups and products within. Use + and – buttons (in front of group name) to display/hide products in the group.
2.Image: The image which is already set for selected group (if done already).
3.Remove Group Image: The buttons to remove image from the selected group.

4.Change Group Image: The buttons to change image for the selected group.

Note: This feature is not active on POS software.

## 4.1.3 Color cards in zone

To make color card configuration in zones, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Color cards in zones** page.

In color cards in zone page you can:

- > Set color cards to be used in zones
- > Edit color card zone names to be used in zones
- > Set color card to be used as preferred color card

In color cards in zone page you can also create and edit zones.

1

In the <b>Color cards in the zone</b> tab	page you have the	following options:
---	-------------------	--------------------

one:	Default Zone			•	🌛 New Zone	🕜 Edit Zone	🍔 Delete Zone
Card n	ame	In use	Card zone n me	Preferred			
Aquat		<b>V</b>	Aquatec SI 3				
Match	ing 1	V	Matching tes				
Monic	olor Nova 720		color Nova 720				
			2	4			
				And the second second			
						- A n i	
						🔅 Reset	📕 Save

**1.Card name:** The list of the color cards in the system.

**2.In use:** When the check box is enabled, the color card is used in the selected zone.

**3.Card zone name:** The name of the color card used in the zone.

**4.Preferred:** When the check box is enabled, the color card is preferred in the selected zone. When the harmonious colors are searched in the POS software, the preferred color cards are used in the search.

#### 4.2 Formula management

To manage formulas, navigate into the **Management & Analysis**  $\Rightarrow$  **Formula management** page.

In formula management page you can:

- Search formulas from database
- Create and edit formula
- View formula history
- > Set compatible formula when different products are sharing formulas
- View formula prices

In this page, you can view, edit, and delete existing color formula, and also manually create new formula. In this page, you can also create multiple color formula for single color, and define which products are using which alternative formula. This page allows you to also rename colors used in different zones, and view formula pricing based on possible zone pricing.

The formula management section has two sub pages:

- Batch operations
- ➢ F-link inbox

System Selection	Color card:		Product:			Compatil	ole formulas	
ne 🔻	]	•				• Origi	nal	_
🗃 Database overview	Use filter		New Fo	rmula	Formula			
	Search		Formula details					
Configuration	Clear	Add color	Formula history:		•	Basic Price	Compatible	
			Creation date:			Color code:		
atching & Characterization	ASF 1010	^	Abstract base:		Ţ			
	ASF 1011		Absoluce buse.			Section Section	No preview	
Management & Analysis	ASF 1012 ASF 1013		Base:		*	Contraction in the second		
	ASF 1013		Can size:		*			
Zones	ASF 1014					Color name(s):		
	ASF 1020		Fill:	0,00 ml	A.V.			
🚜 Formula management	ASF 1021	=	VOC:	0,00 g / l		Status:		
	ASF 1022		Unit:	ml	<b></b>	Status.		
Batch operations	ASF 1024		onic.					
F-link inbox	ASF 1030					Notes:		
	ASF 1031							
R Pricing	ASF 1032					Primer color:		
	ASF 1033					Products using th	is formula	
Other Other	ASF 1034							
	ASF 1040							
Export and Import	ASF 1041							
	ASF 1042							
<b>Statistics</b>	ASF 1043							
	ASF 1044							
Site Inventory	ASF 1050							
	ASF 1051							
Options	ASF 1052							
options	ASF 1053		Total					
Services & Replication	ASF 1054		0%	100 % 🗘	200%			
services & Replication	ASF 1060		1.1.1.1.1.1		1.1.1.1.1.1			
	ASE 1061	*						

Color card:	Product:		Compa	tible formulas
· · · ·	Exterior 2401 AA	ABC	• Or	
Use filter 1	New For	rmula Forr 2		- RT,TT,VT
Pro	Formula details			
Exterior 2401 AABC	Formula history:	Current version 🔻	Basic Price	e Compatible
	Creation date:	21.3.2000 2:00:00	Color code:	ASF 1013
	Abstract base:	AA 👻		
	Base:	AA 👻		
	Can size:	11 •		
	Fill:	900,00 ml	Color name(s):	
Sedit formula filter	VOC:	g / I	Status:	CONTROLLED AND ACCEPTED
Search	Unit:	US1/192 🔻		NC
Clear Add color	Code	Formula	Notes:	
Add color	RT	2.0		
ASF 1010	TT	45.0	Primer color:	<no card="" color="" primer=""></no>
ASF 1011	VT	14.0	Products using	
ASF 1012 4			Interior 2401	AABC
ASF 1013				
ASF 1014				
ASF 1020 ASF 1021				
ASF 1021				
ASF 1022				
ASF 1024				
ASF 1030				
ASF 1031	SUM / TOTAL	61.0		
ASF 1032	0%	100 % 🚔 200%		
ASF 1033				
Select all Clear selections	Sedit	🔥 Dispense	Print label	Reset Save

#### In the **Formula management** page, you have the following options available:

1.Color card: The drop down list to select a color card.

**2.Product:** The drop down list to select a product.

**3.Use filter / Search:** The check box and search field to narrow down the list of colors in the colors list (4).

**4.Colors:** The list of the colors based on the selections on points 1, 2, and 3.

When Use filte	r check box i	s enabled,	the following	options are	available:
----------------	---------------	------------	---------------	-------------	------------

Color card:		Comparison Ferraria	8 X
Use filter	Filter formulas by:		Clear filter
Formulas in filter: 928	Product:	Exterior 2401 AABC	
Product: Exterior 2401 AABC	Abstract base:	AA 1	
2	Creation date after:	9.1.2012	
Contraction of the second	Creation date before:	8.1.2013	
	Filter by formula	REVIEW	10
	🗌 No formula 🚄 3		
	Component Rules:		6
	4 5		
🖋 Edit formula filter	Can size: 0,11	Unit:	লা
Search	Colorant Rule	Min amount Max amount	
Clear Add co	FT ft		
ASF 1010		8	
ASF 1011			
ASF 1012	E MS		
ASF 1013	MT		
ASF 1014	PT		
ASF 1020			
ASF 1021 ASF 1022	RS		
ASF 1022	RT		
ASF 1025	ST		
ASF 1024	TT		
ASF 1030	-		Þ
ASF 1032			Const
ASF 1033		OK	Cancel

1.Clear filter: The button to reset the selections

#### 2.Filter options:

Product: The drop down list to select a product.

Abstract base: The drop down list to select an abstract base.

**Creation date after:** The drop down list to select a date. All formulas created after selected date are included in the search.

**Creation date before:** The drop down list to select a date. All formulas created before selected date are included in the search.

**3.No formula:** When the check box is enabled all colors with no formula created are included in the search.

**4.Component rules:** When the check box is enabled, section below with component rules are enabled.

**5.Can size:** The drop down list to select a can size to be used in the component rules below.

**6.Unit:** The drop down list to select a unit to be used in the component rules below.

**7.Rule:** When the green button is visible, this rule is enabled. When the red button is visible, this rule is not used.

**8.Min amount/max amount:** The drop down selectors to set minimum and maximum amount of the colorant used as rule in the search.

**9.Search:** The text field to be used to narrow down the search result. Type in the name or code of the color or part of it to make a search.

When a color is selected on the left hand side table, in the upper part of the **Formula details** section of the **Formula management** page, you have the following options available:

Color card:	Product:		Compa	Compatible formulas		
-	Exterior 2401 A	ABC	• Ori	Original		
V Use filter	New For	rmula Formula	- 0 1	- RT,TT,VT *		
Formulas in filter: 928	Formula details		2			
Product: Exterior 2401 AABC	Formula history:	Current version	Bass Price	e Compatible		
	Creation date:	21.3.2000 2:00:0 3	Color code:	ASF 1013		
	Abstract base:	AA				
	Base:	AA 👻				
	Can size:	<b>1 ▼</b>	2020			
5	Fill:	900,00 ml	Color name(s):			
🖉 Edit formula filter	VOC:	g/1 6	Status:	CONTROLLED AND ACCEPTED		
Search	Unit:	US1/192 7		NC		
8	Code	Formula	Notes:			
Clear Ad	RT 📃 RT	2.0				
ASF 1010	TT	45.0	Primer color:	<no card="" color="" primer=""></no>		
ASF 1011	VT	14.0	Products using			
ASF 1012		9	Interior 2401	AABC		
ASF 1013						
ASF 1014						
ASF 1020						
ASF 1021						
ASF 1022						
ASF 1023						
ASF 1024						
ASF 1030						
ASF 1031	SUM / TOTAL	61.0				
ASF 1032	0%	100 % 🔷 200%				
ASF 1033						
Select all Clear selections	🖉 Edit	🔥 Dispense 🛛 🥥	Print label	Reset Save		

**1.New formula:** The button to create a new color formula. When the New formula button is clicked the all changeable fields are changed to edit mode. See further details on the following pages.

**2.Formula:** The button to delete the selected formula. See next page for further information.

3.Formula history: The drop down list to select a formula version.

4. The text field to view:

Creation date of the formula (version).

Abstract base of the formula.

Base paint of the formula.

5.Can size: The drop down list to select a can size for the formula view.

**6.Fill:** If custom can size is selected **Fill(ml)** field is used to determine the can size.

**7.VOC:** The text field to display the unit for the Volatile Organic Compounds, or solvents.

8.Unit: The drop down list to select formula unit.

**9.**The table to display the color formula.

When a color is selected on the left hand side table, in the upper part of the **Formula details** section of the **Formula management** page, and the **Formula** button is clicked, you have the following options available:

Color card:	Product:	Product:				Compatible formulas	
	Exterior 2401 A	ABC		• 0	Original		
🔽 Use filter	🛛 🔒 New Fi		Formula	• 0	1 - TT, VT	*	
Formulas in filter: 3711	Formula details Formula history Creation date:		Move for	ila to current ve mula to POS hi mula to LAB hi	story	]	
	Abstract base: Base: Can size: Fill:	B B 11 900,00 ml	Delete LAB history Delete POS history		t formula(s)		
🖉 Edit formula filter	VOC:	g / I		Status:	CONTROLLED A	ND ACCEPTED	

1. Formula options:

**Set formula to current version:** The selected formula is set as current version status. (one to be used)

**Move formula to POS history:** The selected formula moved to Innovatint POS history.

Move formula to LAB history: The selected formula moved to Innovatint LAB history.

Delete selected formula: The selected formula is deleted.

**Delete LAB history:** The selected formula is deleted from the Innovatint LAB history.

**Delete POS history:** The selected formula is deleted from the Innovatint POS history.

**Delete all color – product formula(s):** All formulas related this color are deleted. Also formulas that are linked with other products with this same color code are deleted.

Note: if no formula is assigned to 'current version', POS is not able to any show formula.

When a color is selected on the left hand side table, and the **New formula** button is clicked the formula table is emptied and enabled for edit, and you have the following options available:

Color card:	Product:			Compatible formulas		
	Exterior 2401 A	ABC	•	Original		
Use filter	🕞 New Fo	rmula Formula	•	© [1-П,VТ т] Set		
Search	Formula details					
Clear I	Formula history:	Current version -	Basic	Price Compatible		
ASF 1010	Creation date:	21.3.2000 2:00:00	Color co	de: ASF 1022		
ASF 1010	Abstract base:	в				
ASF 1012	Base:	B				
ASF 1013	base:					
ASF 1014	Can size:	11 •				
ASF 1020	Fill:	900,00 ml 🔶	Color na	me(s):		
ASF 1021						
ASF 1022	VOC:	g / I	Status:	CONTROLLED AND ACCEPTED		
ASF 1023	Unit:	US1/192 -		NC		
ASF 1024		Formula	Notes:	NC		
ASF 1030	Code	Formula	1			
ASF 1031	FT FT		Primer co	olor: <no card="" color="" primer=""></no>		
ASF 1032	KS					
ASF 1033	LS	1.0 2		s using this formula		
ASF 1034	LT	40.0	Interio	r 2401 AABC		
ASF 1040	MM					
ASF 1041	MS					
ASF 1042	MT					
ASF 1043	PT					
ASF 1044	RS					
ASF 1050	RT					
ASF 1051	ST	-				
ASF 1052	SUM / TOTAL	62.0				
ASF 1055	0%	100 % 🖨 2009				
ASF 1060	0%	and the second sec				
ASE 1061		Û	- 1			
Select all Clear selections	🖉 🖉 Edit	🐧 Dispense	💫 Print labe	e 🔗 Reset 📑 Save		

**1.Formula details area:** The table to input the colorant amounts. Select first the unit and the can size.

**2.Rules indicators**: Manual formula input follows the rules set in color matching area. These are to assist users to create valid formulas.

The red button is displayed when non-acceptable colorant pair is used (as set in the System specific rules, see further instructions in the section 3.2.1).

The red plus symbol is displayed when the colorant amount is more than the upper limit set for the colorant (as set in the Product specific rules, see further instructions in the section 3.2.2).

The red minus symbol is displayed when the colorant amount is less than the lower limit set for the colorant (as set in the Product specific rules, see further instructions in the section 3.2.2).

When saving a new formula, if it violates rules, following window will be displayed.

🤒 Innov	vaTintLab
?	Formula breaks rules. Do you still want to accept it?
	Yes to All No to All Show Details

When a color is selected on the left hand side table, in the lower part of the **Formula details** section of the **Formula management** page, you have the following options available:

Color card:	Product:		Compatible formulas			
	Exterior 2401 AA	ABC	Original			
Use filter	💽 🔒 New Fo	rmula Formula	• 0 3	- TT,LS,LT,VT	- Set	
Search	Formula details					
Clear Add color	Formula history:	Current version -	Basic Price	e Compatible		
ASF 1010	Creation date:	8.1.2013 17:27:54	Color code:	ASF 1022		
ASF 1010	Abstract base:	в 👻				
ASF 1012						
ASF 1012	Base:	B ~				
ASF 1013	Can size:	11 -				
ASF 1020	Fill:	900,00 ml	Color name(s):			
ASF 1021		900,00 mi				
ASF 1022	VOC:	g / I	Status:	ACCEPTED		
ASF 1023	Unit:	US1/192 -	1			
ASF 1024			Notes:	NC		
ASF 1030	Code	Formula	inouca.			
ASF 1031	LS	1.0				
ASF 1032	LT LT	40.0	Primer color:	<no card="" color="" primer=""></no>	> <b>•</b>	
ASF 1033	TT	36.0	Products using	this formula		
ASF 1034	VT	26.0				
ASF 1040			111			
ASF 1041						
ASF 1042						
ASF 1043						
ASF 1044						
ASF 1050						
ASF 1051		4				
	SUM / TOTAL		6			
ASP1061						
Select all Clear selections	🖉 🖉 Edit	👌 🚺 Dispense 🛛 🛃	Print label	Reset	Save	

**1.Select all:** The button to select all colors in the colors list.

2.Clear selections: The button to clear all selections in the colors list.

**3.Edit:** The button to edit a selected formula (will create new version of the formula, current formula is used for edit).

**4.Scaling:** The text box to scale up or down the formula by typing the percentage number in to the field. Alternatively, you can use pointer on below of the text box to scale up or scale down the formula.

**5.Dispense:** The button to send selected formula to the dispenser.

**6.Print label:** The button to print a label for selected formula.

When the <b>Print la</b>	<b>abel</b> button is	clicked, fo	llowing options	are available:
--------------------------	-----------------------	-------------	-----------------	----------------

🤒 Print	8	x
1 Label software:	EasyPrint	
2 Label printer:	\\CPSFI1RDC01\PRSLAFI1002	
3 Number of copies:	1	
4 Habel layout:	C2 TEST.ept	
	Print Preview Ocancel	

**1.Label software:** Dropdown list to select used label software, EasyPrint by default – see Appendix 1.

**2.Label printer:** Dropdown list to select label printer. Please refer to Windows manual on further instructions to install a printer in to the system.

3.Number of copies: Number of labels to be printed.

4.Label layout: Dropdown list to select label layout.

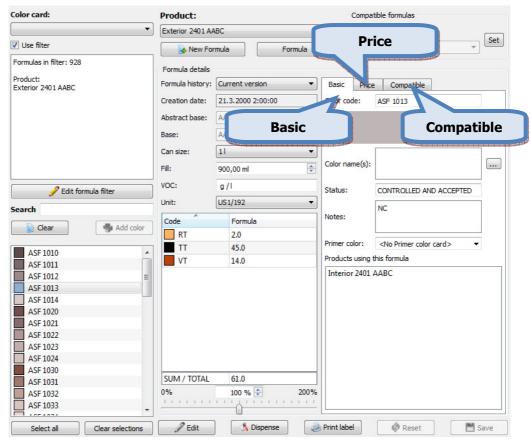
In the **Compatible formulas** section of the **Formula management** screen, you have the following options:

Color card:	Product:				1 Compa	tible formulas	
	Exterior 2401 AABC				Original		
Use filter	New For	mula	Form	ula	<b>- P</b> 1	- RT,TT,VT	
Formulas in filter: 928	Formula details						
Product:	Formula history:	Current			2	Compatible 3	
Exterior 2401 AABC				•		computer	
	Creation date:	21.3.200	0 2:00:00		Color	ASF 1013	
	Abstract base:	AA		-			
	Base:	AA		-			
	Can size:	11		•			
	Fill:	900,00 m	1	-	Color name(s):		
Sedit formula filter	VOC:	g / I			Status:	CONTROLLED AND ACCEPTED	
	Unit:	US1/192		•		NC	
Search	Code	Form	ula		Notes:	NC .	
Clear Add color	RT	2.0	uu				
_	TT	45.0			Primer color:	<no card="" color="" primer=""> 🔹</no>	
ASF 1010	VT	14.0			Products using	this formula	
ASF 1011					Interior 2401	AABC	
ASF 1012							
ASF 1014							
ASF 1020							
ASF 1021							
ASF 1022							
ASF 1023							
ASF 1024							
ASF 1030				_			
ASF 1031	SUM / TOTAL	61.0					
ASF 1032	0%	100 %		200%			
ASF 1033		<u> </u>					
Select all Clear selections	Sedit	3	Dispense	2	Print label	🖗 Reset 🛛 💾 Save	

**1.Original:** When the radio button is selected the original formula is used.

**2.**When the radio button is enabled, the drop down list is activated, and alternative formula can be selected from the list.

**3.Set**: The button to set alternative formula (selected from drop down list (2)) into the use.



In the right hand side of the **Formula management** screen, you have 3 tab pages: Basic, Price and Compatible.

In the **Basic** tab page of the **Formula management** screen, you have the following options:

Color card:		Product:			Compa	atible formulas
	•	Exterior 2401 AA	ABC	•	O	riginal
Vse filter		🕞 New For	mula Formula	•	0	L - RT,TT,VT
Formulas in filter: 928		Formula details				
Product: Exterior 2401 AABC		Formula history:	Current version	Basic	Pric	ce Compatible
		Creation date:	21.3.2000 2:00:00	Color o	ode:	ASF 1013
		Abstract base:	AA			(1)
		Base:	AA	รีเ		Ċ
		Can size:	11	-		2
					name(s):	
		Fill:	900,00 ml	Color r		
Sedit form	nula filter	VOC:	g / I	Status	:	CONTROLLED AND ACCEPTED 3
Search		Unit:	US1/192 ·	•		NC
		Code	Formula	Notes:		5 4
Clear	s Add color	RT	2.0			
ASF 1010		TT	45.0	Primer	color:	<no card="" color="" primer=""></no>
ASF 1010		VT	14.0	Produc	ts using	this formula
ASF 1011	=			Interi	or 2401	AABC 6
ASF 1013						
ASF 1014						7
ASF 1020						<b>'</b>
ASF 1021						and the second sec
ASF 1022						
ASF 1023						
ASF 1024						
ASF 1024						
ASF 1030		SUM / TOTAL	61.0			
ASF 1032		0%	100 % 🚔 200	%		
ASF 1032		1				
ASF 1055	-	-	0			
	Clear selections	2 Edit	Dispense	A Print la		🗞 Reset 🛛 🛅 Save

**1.Color code:** The text field to display the color code.

**2.Color name(s)**: The text field to display the name of the color, or the names of the color if multiple names exists.

**3.**....:: The button to add or modify the color names.

**4.Status:** The drop down field to display (or edit) the formula status. Options are:

Review: Default status for new formula

**Accepted:** The status for the formula which has not been dispensed, and has been accepted without review with real drawdown. The formulas that are imported from the external file or the database without any status, will have this status.

**Dispense:** The status for the formula which is placed in to the dispensing queue.

**Control:** The status for the formula which is dispensed and is waiting to be accepted or rejected.

**Controlled and accepted:** The status for the formula which is dispensed and after review it has been accepted.

**Rejected:** The status for the formula which has not been dispensed, and has been rejected without review with real drawdown.

**Controlled and rejected:** The status for the formula which is dispensed and after review it has been rejected.

**5.Notes:** The text field to display and edit formula notes. Place cursor or mouse pointer into the text field to type in the text.

**6.Primer color:** The drop down list to select a color of the primer. Primer color card has to be set beforehand for the product to make this field enabled.

**7.Products using this formula:** The table to display all products that are using selected formula.

# In the Price tab page of the Formula management screen, you have the following options:

Color card:		Product:				Compatib	Compatible formulas			
	•	Exterior 2401 AA	BC			<ul> <li>Origin</li> </ul>	nal			
Use filter		New Formula Formula			ıla	▼ © 1-F	t,tt,vt	▼ Set		
Search		Formula details								
Clear	Add color	Formula history:	Current ve	rsion	-	Basic Price	Compatible			
ASF 1010		Creation date:	21.3.2000	2:00:00	Z	one:	Default Zone			
ASF 1010		Abstract base:	AA		- Te	otal volume (ml):		227,35		
ASF 1012		Base:	AA		- T	otal mass (g):		228, 7		
ASF 1013						otal mass (g).				
ASF 1014		Can size:	0,251		<b>-</b>	Code	Price	Price (tax 2		
ASF 1020		Fill:	225,00 ml		-	Colorant cost	0,03 €	0,04 €		
ASF 1021	_	VOC:	- //			Colorant price	0,03 €	0,04 €		
ASF 1022	=	voc:	g/l			Colorant margi	n 0,00€	0,00 €		
ASF 1023		Unit:	US1/192		-	Base cost	5,00 €	6,12 €		
ASF 1024		Code	Formu	12		Base price	5,15 €	6,31 €		
ASF 1030		RT	0.5	ia		Base margin	0,15 €	0,19 €		
ASF 1031						Tint fee	0,10 €	0,12 €		
ASF 1032		TT	11.25			Tint price	0,10 €	0,16 €		
ASF 1033		VT	3.5							
ASF 1034						List price	5,28 €	6,47 €		
ASF 1040						Total price	5,28 €	6,47 €		
ASF 1041						Margin	0,25 €	0,31 €		
ASF 1042						Tax	1,19 €	1,19€		
ASF 1043					1	Price (I)	23,23 €			
ASF 1044					1	Price (kg)	23,12 €	3		
ASF 1050										
ASF 1051										
ASF 1052		SUM / TOTAL	15.25							
ASF 1055					008					
ASF 1054		0%	100 %	2	200%					
ASF 1061	-	-	0		— [L					
Select all	Clear selections	Sedit	)	Dispense	a Pr	int label	Reset	Save		

**1.Total volume (ml):** The text field to display the total volume of the formula (based on the selected can size). The unit of the measure is millilitres.

**2.Total mass (g):** The text field to display the total weight of the formula (based on the selected can size). The unit of the measure is grams.

3. The table to display price, cost, margin, and tax information.

Colorant cost

Colorant price

Colorant margin

Base cost

Base price

Base margin

Tint fee

Tint price

List price

Total price

Margin

Тах

Price (I)

Price (kg)

Color card:	Product:		Compatible formulas				
	Exterior 2401 AA	ABC	<ul> <li>Original</li> </ul>		Set		
Use filter	💽 🔒 New For	rmula Formula	• O 1 - RT,TT,VT	<ul> <li> <ul> <li></li></ul></li></ul>			
Search	Formula details						
Dear Add color	Formula history:	Current version	Basic Price Compatible				
ACE 1010	Creation date:	21.3.2000 2:00:00	Product name	Uses	Uses		
ASF 1010	Abstract base:	AA		this	other		
ASF 1011			Exterior 2401 AAC		<b>V</b>		
ASF 1012	Base:	AA 👻					
ASF 1013	Can size:	0,251 🔹	Interior 2401 AABC	V			
ASF 1020	Fill:	225,00 ml	Interior 2401 AAC				
ASF 1021		223,00 mi					
ASF 1022	VOC:	g/l		2	3		
ASF 1023	Unit:	US1/192 •					
ASF 1024				None and			
ASF 1030	Code	Formula					
ASF 1031	RT	0.5					
ASF 1032	TT	11.25					
ASF 1033	VT	3.5					
ASF 1034							
ASF 1040							
ASF 1041							
ASF 1042							
ASF 1043							
ASF 1044							
ASF 1050							
ASF 1051							
ASF 1052							
ASF 1053	SUM / TOTAL	15.25					
ASF 1054	0%	100 % 🚔 200%					
ASF 1060		<u></u>					
			5				

In the **Compatible** tab page of the **Formula management** screen, you have the following options:

 $\ensuremath{\textbf{1.Product name:}}$  The list of the compatible products i.e. Shares the same Abstract base.

**2.Uses this:** When check box is enabled product is using selected formula.

**3.Uses other:** When check box is enabled product is using other than selected formula.

## 4.2.1 Batch operations

# To manage batch operations, navigate into the **Management & Analysis** ⇒ **Formula management > Batch operations** page.

In Batch operation page you can:

- > Remove & move formulas from the products, and limit the effect with the selectors
- > Copy "approved" formulas in batches to other products, and set the rules to these operations.

🤒 s6main, s6local - InnovaTint - LAB (Work	group Edition) v1.4.2013.1.8	
System Selection None Database overview Configuration Matching & Characterization Management & Analysis Configuration Management & Analysis Configuration Batch operations F-link inbox F-l	Remove/move formulas Remove Move Color card: <ali> <ali> Product: <ali> Exceeds product VOC-lmit Breaks product VOC-lmit Breaks base colorant rules Breaks base colorant rules Breaks base fill rules Breaks system rules Is in POS history Is in LAB history</ali></ali></ali>	Copy formulas: From: Product: Exterior 2401 AABC Color card: <all> Only current version Current version + POS history To: Product: <all compatible="" products=""> Existing formula version handling: Remove Move to POS history Move to LAB history No formulas that: Exceeds product VOC-lmit Breaks base colorant rules Breaks base fill rules Breaks system rules</all></all>
	Remove formulas which match search	Start copy

Remove/move formulas	Copy formulas:
Remove O Move	From:
	Product: Exterior 2401 AABC
Color card:	Color card: <all></all>
	Only current version
Product:	Current version + POS history
	То:
Exceeds product VOC-limit	Product: <a>All compatible products&gt; </a>
5 Breaks base colorant rules	Existing formula version handling:
Breaks base coorant rules     Breaks base fill rules	Remove      Move to POS history     Move to LAB history
Breaks system rules	No formulas that:
	Exceeds product VOC-limit
6 Is in POS history	Breaks base colorant rules
Is in LAB history	Breaks base fill rules
	Breaks system rules
Remove formulas which match search	Start copy
8	Start copy
if mays option calested	
if move option selected:	
_	
Current version	
Move formulas to LAB history	

On the **Remove/move formulas** area, following items are available:

**1.Remove/move:** Radio button to select type of operation, remove / move.

2.Color card: Dropdown list to select all color cards or a color card.

3.Product: Dropdown list to select all products or a product.

4.Exceeds product VOC-limit: limit the action to VOC checking.

**5.Breaking the rules:** Three options to limit the action; breaks base colorant rules, Breaks base fill rules and Breaks system rules.

6.Is in POS history: Only POS history versions effected, that is, current version will remain

**7.Is in LAB history/Current version:** remove LAB history formulas/ move current version to LAB history.

**8.Remove formulas which match search / Move formulas to LAB history:** Button to start selected action.

When the (8) action button is clicked, following window will be shown:

🤒 Inform	nation		x
1	15 Formula(s)	removed!	
			OK Hide Details
Exterior	2401 AABC 2401 AAC 2401 AABC	ASF 1010 ASF 1010 ASF 1010	
Exterior Exterior	2401 AAC 2401 AABC 2401 AAC 2401 AAC	ASF 1010 ASF 1022 NOVA F027 NOVA F029	

It will inform effected product and their colors. After clicking "OK", following options are available:

System Selection	Remove/move formulas	Copy formulas:
None	Remove     Move	From:
Database overview		Product: Exterior 2401 AABC
Database overview	Color card:	Color card: <all></all>
		Only current version
Configuration	Product:	Current version + POS history
Matching & Characterization	All>	To:
Matching & characterization	Exceeds product VOC-limit	
// Management & Analysis	Breaking the rules	Product: <a>All compatible products&gt;</a>
<b>1</b>	Breaks base colorant rules	Existing formula version handling:
Zones	Breaks base fill rules	Remove O Move to POS history O Move to LAB history
	Breaks system rules	No formulas that:
📕 🔰 🚜 Formula management		Exceeds product VOC-limit
Batch operations	✓ Is in POS history	Breaks base colorant rules
poter operations	☑ Is in LAB history	Breaks base fill rules
F-link inbox		Breaks system rules
Pricing		
Other		
Export and Import		
<b>Statistics</b>		
Site Inventory		
Options	Remove formulas which match search	Start copy
Services & Replication		
	Now you can use progra	am to browse changed data.
	Rollback If you are happy with d	hanges select commit to save changes Commit restore database into state before the operation

**1.** Information signs to notify user that this area is having unfinished actions, which requires decision. During this status, it is possible to move around different areas of software, but database changes are not allowed.

2.Rollback: Rollback button to cancel remove/move action.

3.Commit: Commit button to finalize remove/move action.

Remove   Move   Color card:   Cal>   Product:   Cal>   Cal>   Color card:   Color card:   Color card:   Color card:   Color card: <th>Remove/move formulas</th> <th></th> <th>Copy formulas:</th>	Remove/move formulas		Copy formulas:
Color card:   Call>   Yroduct:   Call>   Call> <t< th=""><th>Remove</th><th>Move</th><th>From:</th></t<>	Remove	Move	From:
Color card: <ai> Product: Color card: <ai> Color card: <ai< p=""> Color c</ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai<></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai></ai>			Product: Exterior 2401 AABC
Product: <al> <!--</th--><th></th><th></th><th>Color card: <all></all></th></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al></al>			Color card: <all></all>
Current version + POS history     Exceeds product VOC-limit   Breaks base colorant rules   Breaks base fill rules   Breaks system rules     Is in POS history   Is in LAB history     5     Breaks base fill rules   Breaks base fill rules     Breaks base fill rules   Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules        Breaks base fill rules     Breaks base base     Breaks base base     Breaks base base     Breaks base base     Breaks base     Breaks base     Breaks base     Breaks base     Breaks base     Breaks base </td <td></td> <td><b></b></td> <td>Only current version</td>		<b></b>	Only current version
Exceeds product VOC-limit   Breaking the rules   Breaks base colorant rules   Breaks base fill rules   Breaks system rules   Is in POS history   Is in LAB history     5     Breaks base fill rules   Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks base fill rules     Breaks system rules     Statement     Breaks base colorant rules     Breaks base fill rules        Breaks base fill rules			2 Current version + POS history
Control     Control <td></td> <td></td> <td>To:</td>			To:
Breaks base colorant rules Breaks base colorant rules Breaks base fill rules Breaks system rules Is in POS history Is in LAB history Status base fill rules Breaks base colorant rules B			
Breaks base fill rules Breaks system rules Is in POS history Is in LAB history Standard Remove Move to POS history Move to LAB history Breaks base colorant rules Breaks base fill rules Breaks base fill rules Breaks system rules			
Breaks system rules     Is in POS history     Is in LAB history     Some formulae history		2S	
Breaks system rules     Is in POS history   Is in LAB history     So formulas that:   Breaks base colorant rules   Breaks base fill rules   Breaks system rules	Breaks base fill rules		
Is in POS history         Is in LAB history         5         Breaks base colorant rules         Breaks base fill rules         Breaks system rules	Breaks system rules		No formulas that:
Is in LAB history  Breaks base colorant rules Breaks base fill rules Breaks system rules  Statusers	Is in POS history		Exceeds product VOC-limit
Breaks base fill rules Breaks system rules Breaks system rules Breaks base fill rules Breaks system rules			
	IS IT LAD HIStory		5 🖉 🖾 Breaks base fill rules
Remove formulas which match search			Breaks system rules
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
Remove formulas which match search			
	🛛 🍔 Remove formulas which	match search	6 Start copy

On the Copy formulas area, following items are available:

**1.From:** Area to select copied formulas. After product selection, either to select from the dropdown list all color cards or to limit selection to a color card.

**2.**Radio buttons to select the scale of copying, current version or also POS history.

**3.To:** a dropdown list to select where to copy formulas. Options are all compatible products or single product. **note:** Abstract bases must match.

**4.Existing formula version handling:** a Radio button selection to make for the cases where the target product already has available formulas. Options are remove, Move to POS history, Move to LAB history.

**5.No formulas that** is an area to set exception rules, type of formulas that can't be copied. Possible limiters are, Exceed product VOC-limit, Breaks base colorant rules, Breaks base fill rules and breaks system rules

6.Start copy: Button to start action

When the (6) action button is clicked, following window will be shown:

🤒 Inform	nation	X
1	2634 Formula(s) copied!	
		OK Show Details

It will inform effected product and their colors. After clicking "OK", following options are available:

System Selection	Remove/move formulas	Copy formulas: From:
None	Remove	Product: Exterior 2401 AABC
Catabase overview	Color card:	Color card: <all></all>
	<all> •</all>	Only current version
Configuration	Product:	Current version + POS history
Matching & Characterization		
Matching & characterization	Exceeds product VOC-limit	To:
👖 Management & Analysis	Breaking the rules	Product: <a>l compatible products&gt;</a>
	Breaks base colorant rules Breaks base fill rules	Existing formula version handling: Remove Move to POS history Move to LAB history
Zones	Breaks system rules	No formulas that:
Formula management		Exceeds product VOC-limit
/ Batch operations	✓ Is in POS history	Breaks base colorant rules
	☑ Is in LAB history	Breaks base fill rules
F-link inbox		Breaks system rules
Pricing		
Other Other		
Export and Import		
Statistics		
Site Inventory		
Options	Remove formulas which match search	Start copy
Services & Replication		
	Rollback If you are banny with d	am to browse changed data. hanges select commit to save changes restore database into state before the operation

**1.** Information signs to notify user that this area is having unfinished actions, which requires decision. During this status, it is possible to move around different areas of software, but database changes are not allowed.

2.Rollback: Rollback button to cancel remove/move action.

**3.Commit:** Commit button to finalize remove/move action.

## 4.2.2 F-link inbox

To manage batch operations, navigate into the **Management & Analysis** ⇒ **Formula management > F-link inbox** page.

F-link page is made to allow InnovaTint LAB to be connected to an external management system, for example ERP, that is capable to send formulations in flink format, and which are supposed to be saved into the InnovaTint database.

See Options – Applications for further information to setup f-link inbox.

🤒 s6main, s6local - InnovaTint - LAB (Wo		and inbo rea	x	Тс	ools area	
System Selection	Filter by produ					and the second
None	Automatically as and form	ulas as current versi	ion	Formula	ompatible products	
Database overview	Automatically update linked			Color code:	ASF 1010	
	Automatically save new colo	ors into colorcard:		Product:	Exterior 2401 AABC	* *
Configuration	Alpinacolor		•	Base:	C	
Matching & Characterization	Formulas			Abstract base:		
	Product name	Products	Color code	Can size:	0,251	
Management & Analysis	Exterior 2401 AABC	12	ASF 1010	Unit:	ml	
Zones	Exterior 2401 AABC	12	ASF 1010 2	Code	Formula	
	Exterior 2401 AABC	12	ASF 1010 3	FT	5,54	
Formula management						
Batch operations				TT	51.7	T
F-link inbox				VT	3.08	
Pricing				XT	2.62	
Other Other						
Export and Import						
Statistics						
Site Inventory				Total 💠 6	52.94	
Options					👆 Add formula to databas	se 🔻
Services & Replication				🖉 🥹 Pr	rint Label	Dispense
	Add formula(s)		Remove formula(s)	]	🕼 Reset	Save

	Filter by product:		•	]		
	Automatically add valid form	ulas as current versio	n	Formula Co	ompatible products	
3	Automatically update linked	products	2	Color code:	ASF 1010	
3	Automatically save new colo	rs into colorcard:		Product:	Exterior 2401 AA	
	Alpinacolor 4	·	•		C	
5	Formulas			Abstract base:		
	Product name	Products	Color code			
	Exterior 2401 AABC	12	ASF 1010	Can size:	0,251	•
	Exterior 2401 AABC	12	ASF 1010 2	Unit:	ml	•
	Exterior 2401 AABC	12	ASF 1010 3	Code		rmula
				FT	5.5	4
				т	51.7	7
				🔲 VT	3.0	8
				Тхт	2.6	2
				Total 🔶 🤅	52.04	
					Sector Add formul	la to database 🔹
				and the second s	rint Label	👌 Dispense
6	Add formula(s)		Remove formula(s)		4	Reset

In F-link inbox page following options in settings and inbox area are available:

**1.Filter by product:** dropdown to select product and limit formulas on the inbox.

**2.Automatically add valid formulas as current version:** if check box enabled in coming formula will be approved directly into the database. **note:** formula may not violate any matching rules.

**3.Automatically update linked products:** if the checkbox is enabled, approved formula will be updated to all possible products, which shared the previous formula (or could use the formula)

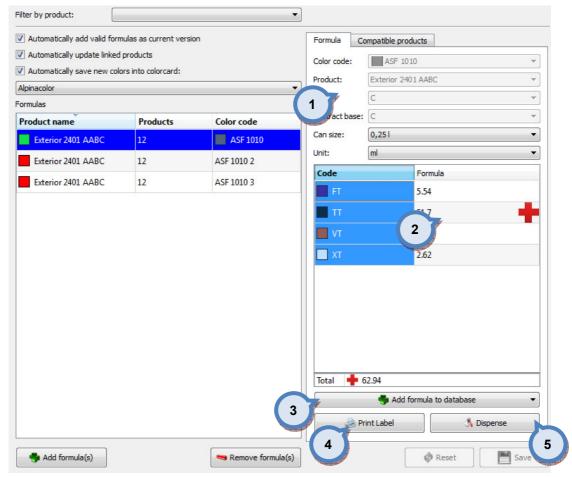
**4.Automatically save new colors into colorcard:** If the checkbox is enabled new formula, its color code, will be added to the selected color card if not found from the other color cards. Use the dropdown list to select color card.

**5.Formulas:** Table to contain information about all formulas in the inbox. Table holds information about the product where the formula is assigned, number of other products that could use the formula and color code where the formula belongs to.

Product cell will inform with traffic lights if the flink formula is properly formatted, green all OK, Red means missing or invalid information. See also next page for matching rules checking.

6.Add formula(s): Button to save selected formulas into the database.

7.Remove formula(s): Button to remove selected formulas from inbox.



1.Area for color and product information

**2.**Table presenting formula and possible violations of matching rules.

**3.Add formula to database:** Button to add selected formula into the database. Button has multiple options to choose from, these are;

- -Move formula to POS order queue
- -Add formula into database current version
- -Add formula into database POS history
- -Add formula into database LAB history
- 4.Print label: Button to print label
- **5.Dispense:** Button to send formula to the dispenser.

In F-link inbox page, Tools area is divided for Formula and Compatible products tabs, Compatible products tab has following options available:

Filter by product:			•			
Automatically add valid form	nulas as current versio	n	F	ormula Compatible pr	oducts	
Automatically update linked	products			At least one formula	All fo	rmulas
Automatically save new cold	ors into colorcard:	1		Product name	In use	Formulas
Alpinacolor			, Marine ,	er 2401 AABCYR		9
Formulas			-(	2 0101 000		9
Product name	Products	Color code		3		9
Exterior 2401 AABC	12 🥥	ASF 1010	I	Interior 2401 ABC	4	TP
Exterior 2401 AABC	12 🔵	ASF 1010 2	I	Interior 2401 AC		8
Exterior 2401 AABC	12 🔵	ASF 1010 3	I	Interior 2401 ABCYR		9
Exterior 2401 AABC	8	DB0310	E	Exterior 2401 AC		8
Exterior 2401 AABC	12 🔵	DB0341	E	Exterior 2401 ABCYR		9
Exterior 2401 AABC	5	DB0373		Exterior 2401 AAC	<b>v</b>	8
Exterior 2401 AABC		DB0401	I	Interior 2401 AABC		9
Exterior 2401 AABC	12 🔵	DB0424	ŧ	Exterior 2401 ABC		9
Exterior 2401 AABC	12 🔵	DB0450	I	Interior 2401 AAC		8
			E	Exterior 2401 AABC	<b>V</b>	9
🜗 Add formula(s)		🔫 Remove formula(	s)		Reset	Save

**1.** Radio buttons to select which compatible product would be shown. Options are:

**-At least one formula**; where all the products, which can accommodate at least one of the selected formulas in formula table on left.

-All formulas; where only those products that can accommodate all the selected formulas in formula table on left.

2.Product name: Product name that can be used with the selected formula

3.In use: check box to select product to use formula

4.Formulas: Number of formulas that could be used from the selection.

**5.**Formula table shows with traffic lights suitable formulas if a product is selected on the product table.

#### 4.3 Pricing

To set pricing for colorants, paint cans, and base paints, navigate into the **Management & Analysis ⇒ Pricing** page.

In pricing page you can:

- > Set prices for colorants, cans, and products
- Set price groups
- > Copy prices from one zone to another zone
- Set locks

All prices in Innovatint are shown with the currency symbol that has been defined in Windows Control Panel. To change, click Start button on Windows Task Bar, then **Settings** ⇒ **Control Panel** ⇒ **Regional Settings** ⇒ **Currency**.

Price calculation is driven by a number of parameters that may be inserted to the PRICE\_xxx tables in the main db, and in the corresponding LPRICE\_xxx tables in the local db.

If the same parameter is found in multiple tables, the value from the highest priority table is used, according to this order:

PRICE\_COMMON (lowest priority) PRICE\_CANSIZE

PRICE PRODUCT

PRICE\_BASE

PRICE\_CAN

PRICE\_PRODUCT\_COLOUR (only in main db)

PRICE\_CNT (highest priority)

Values in the local db have priority over the main db, unless the parameter is locked in the main db by inserting the parameter name in PRICE\_LOCK. In that case the corresponding values in local db are ignored.

Missing parameters are assumed value of 0, except the rounding steps which default to 0.01.

The following table lists all parameters and the tables where each mig	ght be inserted in typical
usage:	

Parameter	Description	PRICE_COMMON	PRICE_CANSIZE	PRICE_PRODUCT	PRICE_BASE	PRICE_CAN	PRICE_PRODUCT_ COLOUR	PRICE_CNT
TAX	Tax rate	~		~				
CTAX	Tax rate on colorants, if different	~						
TINTFEE	Tinting fee	✓	~	✓				
BCOST	Base cost per can					~		
BCOSTL	Base cost per litre (for custom can size)				✓			
BMARGIN	Base margin rate	~		~	~		✓	
BPRICE	Base price					✓		
CCOST	Colorant cost							✓
CMARGIN	Colorant margin rate	~						✓
MRP	Maximum retail price					✓		
BROUND	Rounding step for base price	~						
CROUND	Rounding step for colorant price	~						
LROUND	Rounding step for list price	~						
PROUND	Rounding step for (final) price	✓						
USEPG	Enable price groups (non-zero value)	✓		~				
PGLIMIT	Price group limit (colorant cost/nominal quantity, in I or kg) for each price group	~		~	~			
PGCPRICE	Colorant price according to price group		✓					
PGPRICE	Total list price according to price group					~		
PGBC	Barcode of price group		~			~		

Tax and margins are inserted as numbers between 0 and 1. Tax is relative to tax-free price and margin is relative to selling price.

# **Output and calculations**

#### Price groups disabled

Prices without tax, assuming all rounding steps = 0. Discount rate is a user input. Base cost = BCOST if available, or BCOSTL \* Base volume Base price = BPRICE if available, or Base cost / (1 - BMARGIN) Base margin = Base price - Base cost Colorant cost =  $\Sigma$  CCOST \* Colorant volume Colorant price =  $\Sigma$  CCOST \* Colorant volume / (1 – CMARGIN) Colorant margin = Colorant price - Colorant cost Tinting fee = TINTFEE Price of tinting = Tinting fee + Colorant price List price = Base price + Price of tinting Discount = -Discount rate \* List price Price = List price + Discount [Note: Discount  $\leq 0$ ] Cost = Base cost + Colorant cost Margin = Price - Cost Price per litre = Price / Total volume of tinted paint Price per kilogram = Price / Total mass of tinted paint

Tax-inclusive prices are generally the above multiplied by (1 + TAX). If rounding is enabled, it is applied to the tax-inclusive price, and the price before tax, and margin, are calculated backwards from there. If CTAX is set, it applies to Price of tinting, and TAX applies to Base price.

If MRP is set and the above calculations would make List price including tax greater than MRP, List price is set to MRP and Margin is adjusted accordingly.

#### Price groups enabled

Price group is determined after calculating Colorant cost. Each price group is numbered and associated with a PGLIMIT value. The formula is assigned the lowest numbered price group having PGLIMIT  $\geq$  (Colorant cost / Nominal quantity in litres or kilograms). If none of the groups meet this criterion, the highest numbered price group is assigned.

The price group number is used to look up PGPRICE and PGCPRICE. These have the following effect on the price calculations:

If PGPRICE has been set:

List price = PGPRICE

Price of tinting = List price - Base price

Colorant price = Price of tinting – Tinting fee

Otherwise, if PGCPRICE has been set:

Colorant price = PGCPRICE

Otherwise:

Colorant price = PGLIMIT \* Nominal quantity in litres or kilograms / (1 - CMARGIN)

All other prices are calculated using the same formulas as in the section Price groups disabled.

#### Price analysis

The price analysis shows the relative contributions of base cost, colorant cost, margin and tax to the final tax-inclusive price.

It is possible that some or all items are disabled through the Innovatint LAB software using the "LOCKS" function. This will prevent using the Custom values instead of the predefined values. In this case, user can input a new value to the table, but it will not be saved into the local database.

The rounding of values are done according to the following example:

1.012 -> 1.01 1.015 -> 1.02

: Default Zone	-	Copy zone price structure to	efault Zone
rs Common	1	Use price grov	3
Colorants     FT		4 No Price	group items for selected
KS		Description	Value
LS		Base margin rate	3,00 %
LT 5		Colorant margin rate	5,00 %
MS		Rounding step for (final) price	0,01
MT		Rounding step for base price	0,01
PT		Rounding step for colorant price	0,01
RS RT		Rounding step for list price	0,01
ST	=	Tax rate	22,50 %
TT		Tax rate on colorants	
US		Tinting fee	0,10 € 6
VT		Thinking rec	0,10 €
XT ZT			
✓ Can sizes			
0,1			
0,251			
0,5 I			
11			
41			
51			
10			
201			
Products			
Exterior 2401 AABC			
A AA			
0,251			
11	-		
		L	

#### On the **Pricing** page, you have the following options available:

**1.Zone:** The drop down list to select a zone.

**2.Copy zone price structure to:** The button to copy the price structure of the selected (1) zone into the other zone selected from the drop down list (3).

**3.**The drop down list to select a zone into which zone pricing structure is copied into.

**4.Use price groups:** When the check box is enabled, the price groups are used.

**5.Prices:** The list of the colorants, can sizes, products, locks, and colors.

**6.**The table to display values for the pricing options.

When the Use price groups	button is clicked,	, the following	options are	available:

ices	*	V Use price groups	
Common		Price groups 1	
<ul> <li>Colorants</li> </ul>			
FT		Number of price groups 1	
KS		Price group	limit (colorant cost / nominal quantity, in I or kg)
LS		Description: for each p	
LT			2
MM		Price group	Value
MS		PG1	3
MT			3
PT			and states a
RS RT			
ST	E		
TT			
US			
VT			
T XT		Description	Value
			3,00 %
ZT			
ZT Can sizes		Base margin rate	
<ul> <li>Can sizes</li> <li>0,1 I</li> </ul>		Colorant margin rate	5,00 %
<ul> <li>Can sizes</li> <li>0,1 I</li> <li>0,25 I</li> </ul>			
Can sizes 0,1 I 0,25 I 0,5 I		Colorant margin rate	5,00 %
Can sizes 0,1 I 0,25 I 0,5 I 1 I		Colorant margin rate Rounding step for (final) price Rounding step for base price	5,00 % 0,01 0,01
<ul> <li>Can sizes</li> <li>0,1 I</li> <li>0,25 I</li> <li>0,5 I</li> <li>1 I</li> <li>4 I</li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price	5,00 % 0,01 0,01 0,01
<ul> <li>Can sizes</li> <li>0,1 I</li> <li>0,25 I</li> <li>0,5 I</li> <li>1 I</li> <li>4 I</li> <li>5 I</li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	5,00 % 0,01 0,01 0,01 0,01
<ul> <li>Can sizes</li> <li>0,1 I</li> <li>0,25 I</li> <li>0,5 I</li> <li>1 I</li> <li>4 I</li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price	5,00 % 0,01 0,01 0,01
<ul> <li>Can sizes</li> <li>0,11</li> <li>0,251</li> <li>0,51</li> <li>11</li> <li>41</li> <li>51</li> <li>101</li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	5,00 % 0,01 0,01 0,01 0,01
<ul> <li>Can sizes</li> <li>0,11</li> <li>0,251</li> <li>0,51</li> <li>11</li> <li>41</li> <li>51</li> <li>101</li> <li>201</li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price Tax rate	5,00 % 0,01 0,01 0,01 0,01
<ul> <li>Can sizes</li> <li>0,1 I</li> <li>0,25 I</li> <li>0,5 I</li> <li>1 I</li> <li>4 I</li> <li>5 I</li> <li>10 I</li> <li>20 I</li> <li>Products</li> <li>Exterior 2401 AABC</li> <li>AA</li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price Tax rate Tax rate	5,00 % 0,01 0,01 0,01 0,01 22,50 %
<ul> <li>Can sizes         <ul> <li>0,11</li> <li>0,251</li> <li>0,51</li> <li>11</li> <li>41</li> <li>51</li> <li>101</li> <li>201</li> </ul> </li> <li>Products         <ul> <li>Exterior 2401 AABC</li> </ul> </li> </ul>		Colorant margin rate Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price Tax rate Tax rate	5,00 % 0,01 0,01 0,01 0,01 22,50 %

**1.Number of price groups:** The selector field to set the number of the price groups.

**2.Description:** The text field for the description of the price group rule.

**3.**The list of the price groups with 2 columns:

Price group: The name of the price group

**Value:** The value of the price group rule as described in the Description field (2).

one: Default Zone	<ul> <li>Copy zone price structure to</li> </ul>	efault Zone	
Prices	Use price groups		
4 Common	Price groups		
Colorants	No Price	group items for selected	
Can sizes			
Products Locks	Description	Value	
Colors	Base margin rate	3,00 %	
	Colorant margin rate	5,00 %	
	Rounding step for (final) price	0,01	
	Rounding step for base price	0,01	
	Rounding step for colorant price	0,01	
	Rounding step for list price	0,01	
	Tax rate	22,50 %	
	Tax rate on colorants		
	Tinting fee	0,10 €	

## In the **Common** level user can define the following Custom values into the Value column:

Base margin rate: Colorant margin rate: Rounding step for (final) price: (default value is 0.01) Rounding step for base price: (default value is 0.01) Rounding step for colorant price: (default value is 0.01) Rounding step for list price: (default value is 0.01) Tax rate: Tax rate on colorants: Tinting fee: Zone: Default Zone Copy zone price structure to Default Zone • Price groups Prices No Price group items for selected ▲ Common Colorants Description FT Value KS Colorant cost 17,84 € LS <inherited 5.0 % from common> Colorant margin rate LT MM MS MT РТ RS RT ST TT US VT 🗌 ХТ ZT Can sizes Products Locks Colors 🤣 Reset 📑 Save

On the **Colorants** level, the user can define the following Values for the each of the colorants in system:

Colorant cost: The (raw material) cost of the colorant.

Colorant margin rate: (default value is inherited from common)

On the **Can size** level, the user can define the following Values for the each of the can sizes in system:

Zone: Default Zone	Copy zone price structure to	Default Zone 🗸
Prices	Price groups	
Common	No Pri	ice group items for selected
Colorants		
▲ Can sizes	Description	Value
0,1	Tinting fee	<inherited 0,10="" common="" from="" €=""></inherited>
0,25 I		
0,5 I		
11		
41		
51		
10		
201		
Products		
Locks		
Colors		
		💠 Reset 📃 Save
1		

**Tinting fee:** 

On the **Products** level, the user can define the following Values for the each of the products in system:

Zone: Default Zone	Copy zone price structure to	Default Zone
Prices	Price groups	
4 Common	No Pri	ce group items for selected
Colorants		
<ul> <li>Can sizes</li> </ul>	Description	Value
Products	Base margin rate	<inherited %="" 3.0="" common="" from=""></inherited>
Exterior 2401 AABC     Exterior 2401 AAC	Tax rate	<inherited %="" 22.5="" common="" from=""></inherited>
<ul> <li>Exterior 2401 AAC</li> <li>Interior 2401 AABC</li> </ul>	Tinting fee	<inherited 0,10="" common="" from="" €=""></inherited>
<ul> <li>Interior 2401 AAC</li> </ul>		
Locks		
Colors		
		🔷 Reset 📑 Save

Base margin rate:

Tax rate:

Tinting fee:

On the **Base paint** level, the user can define the following Values for the each of the base paints within each of the products in system:

ices	Price groups	
Common	No Price g	roup items for selected
Colorants		
Can sizes	Description	Value
Products	Base cost for 0,25 I can	5,00 €
<ul> <li>Exterior 2401 AABC</li> </ul>	Base cost for 1 I can	20,00 €
⊳ AA ⊳ B	Base cost for 10 I can	200,00 €
⊳ B ⊳ C		
Exterior 2401 AAC	Base cost for 4 I can	80,00 €
<ul> <li>Interior 2401 AABC</li> <li>Interior 2401 AABC</li> </ul>	Base cost per litre (for custom can size)	25,00 €
Locks	Base margin rate	<inherited %="" 3.0="" common="" from=""></inherited>

Base cost for X can: where the X is available can size(s).Base cost per litre (for custom can size):Base margin rate:

On the **Can size** level, the user can define the following Values for the each of the can sizes for each of the base paints within each of the products in system:

Zone: Default Zone 🗸	Copy zone price structure to	Default Zone 🔻
Prices  Common	Price groups No Price	ce group items for selected
<ul> <li>Colorants</li> <li>Can sizes</li> </ul>	Description	Value
Products	Base cost per can	5,00 €
<ul> <li>Exterior 2401 AABC</li> </ul>	Base price	
4 AA 0,25 I	Base price margin (%)	
11	Maximum retail price	
41	Maximum retail price	
10		
▷ B ▷ C		
<ul> <li>Exterior 2401 AAC</li> </ul>		
<ul> <li>Interior 2401 AAC</li> <li>Interior 2401 AABC</li> </ul>		
Interior 2401 AAC		
Locks		
Colors		
		Reset Save

Base cost per can: Base price: Base price margin (%): Maximum retail price: On the **Locks** level, the user can selects the following items to be not changeable on the POS software.

Base cost per can         Base cost per litre (for custom can size)         Base margin rate         Base price         Colorant cost         Colorant margin rate         Colorant price according to price group         Enable price groups         Price group limit (colorant cost / nominal quantity, in l or kg) for each price group         Rounding step for (final) price         Rounding step for colorant price         Rounding step for list price         Tax rate	
Base cost per litre (for custom can size)         Base margin rate         Base price         Colorant cost         Colorant margin rate         Colorant price according to price group         Enable price groups         Price group limit (colorant cost / nominal quantity, in l or kg) for each price group         Rounding step for (final) price         Rounding step for colorant price         Rounding step for colorant price         Rounding step for list price	
Base margin rate         Base price         Colorant cost         Colorant margin rate         Colorant price according to price group         Enable price groups         Price group limit (colorant cost / nominal quantity, in l or kg) for each price group         Rounding step for (final) price         Rounding step for colorant price         Rounding step for colorant price         Rounding step for list price	
Base price         Colorant cost         Colorant margin rate         Colorant price according to price group         Enable price groups         Price group limit (colorant cost / nominal quantity, in l or kg) for each price group         Rounding step for (final) price         Rounding step for colorant price         Rounding step for colorant price         Rounding step for list price	
Colorant cost Colorant margin rate Colorant price according to price group Enable price groups Price group limit (colorant cost / nominal quantity, in l or kg) for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for colorant price	
Colorant margin rate Colorant price according to price group Enable price groups Price group limit (colorant cost / nominal quantity, in l or kg) for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	
Colorant price according to price group Enable price groups Price group limit (colorant cost / nominal quantity, in l or kg) for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	
Enable price groups Price group limit (colorant cost / nominal quantity, in l or kg) for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	
Price group limit (colorant cost / nominal quantity, in l or kg) for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	
Price group limit (colorant cost / nominal quantity, in l or kg) for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	
for each price group Rounding step for (final) price Rounding step for base price Rounding step for colorant price Rounding step for list price	
Rounding step for base price Rounding step for colorant price Rounding step for list price	
Rounding step for colorant price Rounding step for list price	
Rounding step for colorant price Rounding step for list price	
Rounding step for list price	
Text and a	
lax rate	
Tinting fee	
Total list price according to price group	
	Total list price according to price group

Base cost per can: Base cost per litre (for custom can size): Base margin rate: **Base price: Colorant cost: Colorant margin rate: Colorant price according to price group:** Enable price groups: Price group limit (colorant cost / nominal quantity, in I or kg) for each price group: Rounding step for (final) price: Rounding step for base price: Rounding step for colorant price: Rounding step for list price: tax rate: **Tinting fee:** Total list price according to price group:

On the **Colors** level, you have the following options available, and the user can define the following Values for the each of the colors:

Zone: Default Zone	<ul> <li>Copy zone price</li> </ul>	e structure to Default Zone
Prices	Product:	Exterior 2401 AABC
Common	Color card:	Monicolor Nova 720
Colorants	Filter by color code:	NOVAED
Can sizes		2
<ul> <li>Products</li> <li>Exterior 2401 AABC</li> </ul>	Colors:	Show only colors with margin
<ul> <li>A AA</li> </ul>	Color code	4 plor margin
0,251	NOVA F016	4 Jinherited 3.0 % from common>
11	NOVA F017	25,00 %
41	NOVA F017	5
10		
▷ B	NOVA F021	30,00 %
⊳ C	NOVA F027	6,00 %
Exterior 2401 AAC	NOVA F029	<inherited %="" 3.0="" common="" from=""></inherited>
Interior 2401 AABC	NOVA F030	<inherited %="" 3.0="" common="" from=""></inherited>
Interior 2401 AAC	NOVA F031	<inherited %="" 3.0="" common="" from=""></inherited>
Locks	NOVA F032	<inherited %="" 3.0="" common="" from=""></inherited>
Colors	NOVA F033	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F037	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F038	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F039	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F043	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F044	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F048	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F050	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F052	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F058	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F060	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F071	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F072	<inherited %="" 3.0="" common="" from=""></inherited>
	NOVA F077	<inherited %="" 3.0="" common="" from=""></inherited>
		🔷 Reset 📃 Save

- 1.Product: The drop down list to select a product.
- **2.Color card:** The drop down list to select a color card.
- 3.Filter by color code: The text field to enter a color code or a part of one.

**4.Show only colors with margin:** When the check box is enabled, the colors with the set margin are only shown.

5.Color margin: The field for the color margin.

## 4.4 Other

To set bar codes to system, navigate into the **Management & Analysis ⇔ Other** page.

On **Other** page you have two tab pages:

- Command barcodes
- > Formula barcodes

🤒 s6main, s6local - InnovaTint - LAB (Workg	roup Edition) v1.4.2013.1.8	
System Selection	Command barcodes Formula barcodes	
None	Barcode	Command
Database ov	6439100362031	Start dispensing 🔻
Command		
barcodes		
	formul	
Management & Analysis	barcod	es
Zones		
Formula management		
Pricing		
Other Other		
Export and Import		
Statistics		
Site Inventory		
Options		
Services & Replication		
	Add row 🗢 Delete row	🚸 Reset 🛅 Save

## On Command barcodes page you can:

Create and edit bar codes

On the **Command barcodes** page, you have the following options available:

🤒 s6main, s6local - InnovaTint - LAB (Work	group Edition) v1.4.2013.1.8		
System Selection	Command barcodes Formula barcodes	2	
None	Barcode	Command	
Catabase overview	6439100362031	Start dispensing	-
Configuration		Place and tint Create new order Ok Skip	
Matching & Characterization		Start dispensing Continue	
Management & Analysis		Retry Place order Cancel	
Zones			
Formula management			
Pricing			
Other			
Export and Import			
Statistics			
Site Inventory			
Options			
Services & Replication	3 4		
	Add row Selete row	\$	Reset 📑 Save

1.Barcode: The column to display a bar code

**2.Command:** The column to display a command to be executed when bar code is read. The commands available are:

- Cancel Continue Create new order Ok Place and tint Place order Retry Skip Start dispensing 3.Add row: The button to add a new bar code.
- 4.Delete row: The button to delete a selected bar code.

On **Formula barcodes** allows to create an order (in POS system) with the single barcode measurement. On this page you can:

> Create and edit bar codes for the color-product-base paint-can size combinations.

Colors	Formulas	Formula barcodes
Color card: 1	Product:	5 Barcod e
	3 Exterior 2401 AABC	
	6	123123
Search:	ar	
ASF 1010 2	AA	
ASF 1011	Can size:	
ASF 1012		inal
ASF 1013	Can size code 7	
ASF 1014 4	0,251	
ASF 1020	0,231	
ASF 1021	11	
ASF 1022	=	
ASF 1023	≡ 4 I	
ASF 1024	10	
ASF 1030		
ASF 1031		
ASF 1032		
ASF 1033		
ASF 1034		
ASF 1040		
ASF 1041		
ASF 1042		
ASF 1043		
ASF 1044		
ASF 1050		
ASF 1051		
ASF 1052		9
ASF 1053		
ASF 1054		📥 Add 🛛 🤜 Delete
ASF 1060		
ASF 1061		
ASF 1062	<b>~</b>	🔅 Reset 🛛 🛅 Save

On the Formula barcodes page, you have the following options available:

**1.Color card:** The drop down list to select a color card.

**2.Search:** The search field to search a color by typing in the code or name of the color. You can also type part of the code or the name to search a color.

**3.Clear:** The button to clear all selections made.

**4.**The list of the colors based on the selection on sections (1) and (2). If no selections made, the whole color list in the database is displayed.

5.Product: The drop down list to select the product.

**6.Base:** The drop down list to select the base paint.

7.Can size code: The list to select a can size.

**8.Barcode:** The field for the barcode for the color-product-base paint-can size combination.

**9.Add/Delete:** The buttons to add a new bar code and delete an existing bar code.

## 4.5 Export and Import

To export and import databases, navigate into the **Management & Analysis**  $\Rightarrow$  **Export and Import** page.

In export and import page you can:

- Export and import databases
- > Covert databases from one format to another format

Before a local database can be extracted an empty database to write to is needed. Alternatively, existing database can be updated.

Source and Destination selections				
Source	e selector	Destination se	elector	
Select source Source Type:	-	Select destination Destination Type:		•
			Back	Next 🐎

Possible destination data types are depending on the source data type. Options for data export are:

Source type	Destination type
Current database	Innovatint database
	Fix-file
	Free text
	Database installation package
	Shop installation package
	Synchronize current minimal Gdata
Innovatint database	Current database
Color Composer 9 database	Current database
G-data (Corob database )	Current database
	Free text
Fix-file format	Current database
Free text (colorants in rows)	Current database
Colour Composer list	Current database

#### 4.5.1 Export from the current database into the Innovatint database

When **current database** is selected as source type and **Innovatint database** is selected as destination type, the following options are available:

Source and Destination selections	
Select source Source Type: Current database	Select destination   Destination Type:   InnovaTint database   Destination settings   Data conflict handling   Insert only new data   (existing data will not be up   Update destination values   and inserts missing data     Database:   s6main   Username:   Password:
	Back Next ≽

- **1.Source type:** The drop down list to select a source database type.
- **2.Destination type:** The drop down list to select a destination database.

**3.Data conflict handling:** Radio buttons to select type of action required, if destination database has conflicting data on it. Options are:

-Insert only new data

-Update destination values and insert missing data.

#### 3.Destination settings:

**Database:** The drop down list to select a destination database.

**Username:** The field to type in the user name for the destination database.

**Password:** The field to type in the user password for the destination database.

Next window in the export wizard is: Datatypes selection.

## In the **Datatypes selection** page, you have the following options:

atatypes selection					1
Characterization					
Characterization	samples				
Data needed for	matching	1			
Colors		and the second sec			
Color information	18				
Color reflectance	information				
V Formulas					
Update other pro	ducts using sa	me formula			
Only the formulas	s that do not b	eak the rules			
Formulas after:	1.1.1970				-
Formula history					
Systems					
Colorants information	ation				
Products					
Product related in	nformation				
V Pricing					
Price basapaint in	formation				
Price basepaint ca	an information				
Price cansize info	rmation				
Price colorant info	ormation				
Price common info	ormation				
Price locking information	mation				
Price product info	ormation				
Price product colo	or margin inform	nation			
Other					
Units information					
				4	
				K Back	Next ≫

**1.**When check boxes are enabled, the corresponding information is included in to the export file.

#### Characterizations

- Characterization samples
- **Data needed for matching:** When this option is selected, also Colorants information as well as the Color reflectance information has to be included.

## Colors

- Color information
- Color reflectance information

#### Formulas

- Update other products using same formula
- Only the formulas that do not break the rules
- **Formulas after:** The text field to type in the date of the oldest possible formula included in to the export file.
- Formula history

#### Systems

- Colorants information

#### Products

- Product related information

# Pricing

- Price basepaint information
- Price basepaint can information
- Price cansize information
- Price colorant information
- Price common information
- Price locking information
- Price product information
- Price product color margin information

# Other

- Units information

Next window in the export wizard is: Zones and Systems checklist

## In the **Zones and Systems checklist** page, you have the following options:

**1.Zones:** When check box is enabled, the corresponding zone is included in to the export file.

**2.Systems:** When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and Color cards checklist.

#### In the Products and Color cards checklist page, you have the following options:

**1.Product template:** The drop down list to select a product template. Use button to save a template, and button to delete a selected template.

K Back

Next 📂

**2.Products:** When check box is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

Use 🔲 button to save a template, and 🔎 button to delete a selected template.

**4.Color cards:** When check box is enabled, the corresponding color card is included in to the export file.

**5.Colors not in any color card:** When the check box in enabled, also the color not belonging to any color card will be included in to the export file.

Next window in the export wizard is: Color card renaming.

Color card rename rules:				
Original Code	New Code			Update preview
Aquatec SF	Aquatec SF		Changed Code Aquatec SF	5
Matching test	Matching test	Matching test	Matching test Monicolor Nova 720	The second s
Monicolor Nova 720	Monicolor Nova 720	6		
olor code rename rules: Original code	New code			

### In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

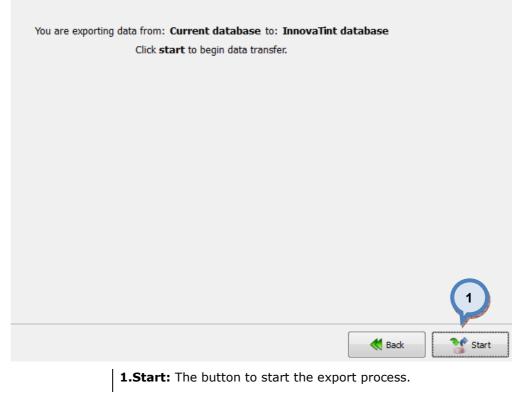
K Back

Next 📂

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



### 4.5.2 Export from the current database into the fix-file

When **current database** is selected as source type and **fix-file** is selected as destination type, the following options are available:

	Select destination
Select source Source Type: Current database	Select destination Destination settings File: Jsers/TBackman/Desktop/This_is_my_test.fix 2 3
	Back Next ≽

**1.Source type:** The drop down list to select a source database type.

**2.Destination type:** The drop down list to select a destination database type.**3.File:** The text field to input the file name and the folder for the destination file. Use \_\_\_\_\_ button to browse for a file.

Next window in the export wizard is: Zones and Systems checklist

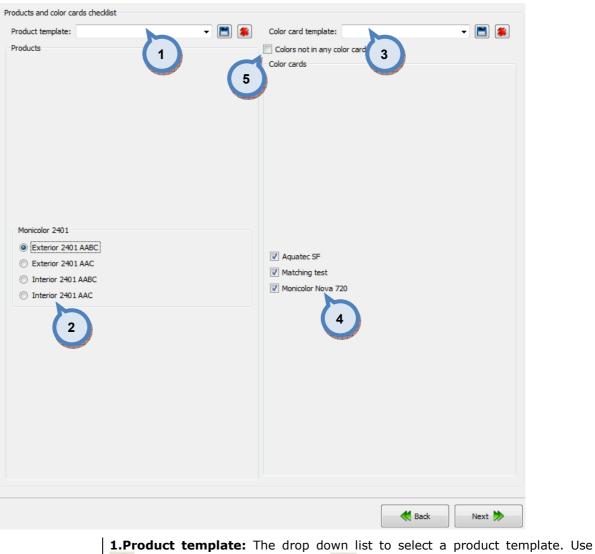
01	
2	
	Back

## In the **Zones and Systems checklist** page, you have the following options:

**1.Zones:** When check box is enabled, the corresponding zone is included in to the export file.

**2.Systems:** When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and Color cards checklist



#### In the **Products and color cards checklist** page, you have the following options:

🔳 button to save a template, and 🔎 button to delete a selected template.

**2.Products:** When radio button is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

Use button to save a template, and subtract button to delete a selected template.

**4.Color cards:** When check box is enabled, the corresponding color card is included in to the export file.

**5.Colors not in any color card:** When the check box in enabled, also the color not belonging to any color card will be included in to the export file

Next window in the export wizard is: Fix file info

In the **Fix file info** page, you have the following options:

Fix-file info	
System code for Class for fix:	
Customer num	
	3
	Back Next ≽

**1.System code for fix:** The text field to enter a system code for the fix file.

**2.Class for fix:** The selector field to select a class number for the formula exported into the fix file.

**3.Customer number:** The selector field to select a customer number for the formula exported into the fix file.

Next window in the export wizard is: Color card renaming.

Color card rename rules:				
Original Code	New Code			Update preview
Aquatec SF	Aquatec SF		Changed Code Aquatec SF	5
Matching test	Matching test	Matching test M	Aatching test Anicolor Nova 720	
Monicolor Nova 720	Monicolor Nova 720	6		
olor code rename rules: Original code	New code			

### In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

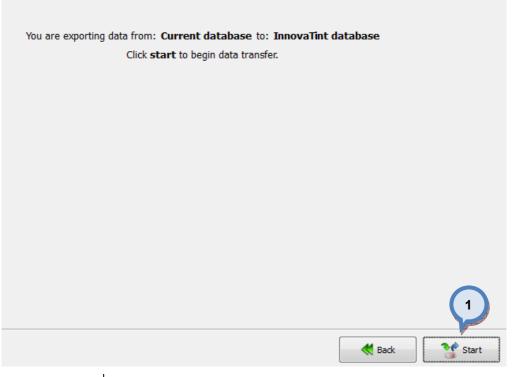
K Back

Next 📂

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

🤒 Operation Report	? ×
Operation successfully done Operation data: Operation errors:	Details
Exported data	Count
	J Ok

## 4.5.3 Export from the current database into the free text

When **current database** is selected as source type and **Free text** is selected as destination type, the following options are available:

Source and Destination selections Select source Source Type: Current database	Select destination Destination Type: Free text Destination settings File: C:/Users/TBackman/Again a test.txt
<b>1 Source type:</b> The dr	Back Next Decision Proping Hart Rest Proping Hart Proping

**2.Destination type:** The drop down list to select a destination database type.**3.File:** The text field to input the file name and the folder for the destination file. Use ... button to browse for a file.

Next window in the export wizard is: Zones and Systems checklist selection



## In the **Zones and Systems checklist** page, you have the following options:

 $\ensuremath{\textbf{1.Zones:}}$  When check box is enabled, the corresponding zone is included in to the export file.

**2.Systems:** When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and Color cards checklist



### In the **Products and Color cards checklist** page, you have the following options:

1.Product template: The drop down list to select a product template. Use 🔳 button to save a template, and 뾛 button to delete a selected template.

2.Products: When check box is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

Use 🔲 button to save a template, and 🔎 button to delete a selected template.

4.Color cards: When check box is enabled, the corresponding color card is included in to the export file.

5.Colors not in any color card: When the check box in enabled. also the color not belonging to any color card will be included in to the export file.

Next window in the export wizard is: Free form .txt export.

In the **Free from .txt export** page, you have four export options: colors, color cards, formula, and product barcodes.

Free form .txt export			
Select expo Colors	Export settings		
	Column separator		
R,G,B	Tab		
Colors     Colors     Colours			
	Comma		
Color cards	Custom:		
Formula     Formula     Product codes     Reflectance	Sub item separator <ul> <li>Default (;)</li> <li>Tab</li> <li>Custom:</li> </ul> Zone: Default Zone	Sub sub item separator Default (:) Tab Custom:	
Product barcodes	zone.		
Outp			
Export item order			
COLOURCODE R,G,B RGB_HTML COLOURNAME BARCODE SUBSTRATE	CODE SPECTRONAME MEASU	REDATE Update Preview	
• III		P Opdate Freven	
	<b>*</b>	Back Next 🐎	

When **Colors** radio button is selected on the **Free from .txt export** page, you have the following options:

Free form .txt export				
Select export type:	Exportable items:		Export settings	
		📝 R,G,B	Column separator	
Colors		COLOURNAME	Tab     omma	
	BARCODE	SUBSTRATECODE	<b>2</b> stom:	
Color cards	SPECTRONAME	MEASUREDATE	Sub item separator	Sub sub item separator
🔿 Formula	MEASURETYPE	✓ LD65	Oefault (;)	Oefault (:)
			A C	🔘 Tab
Product barcodes	V AD65	<b>Ø</b> BD65	3 stom:	◯ Custom: <b>4</b>
	THICKNESS	REFLECTANCE	Zone: _ Default Zon	e
Output		5		
Export item order		All and a second se	8	
			ATECODE SPECTRONAME MEA	
<	,B KGB_TTIME COEC	UNIVAME DARCODE SUBSTR	ATECODE SPECTRONAME MEA	Update Preview
ASF         1012         155;1           ASF         1013         190;1           ASF         1014         214;2           ASF         1021         136;1           ASF         1021         136;1           ASF         1021         136;1           ASF         1022         176;1           ASF         1022         176;1           ASF         1023         128;7           ASF         1031         128;7           ASF         1032         190;1           ASF         1033         218;1           ASF         1034         219;2           ASF         1034         219;1           ASF         1034         219;2           ASF         1040         141;7           ASF         1042         199;1           ASF         1042         199;1           ASF         1043         215;1	;74         #5e <sup>4</sup> 04a           04;107         #7b686b           37;137         #9b8389           181;182         #beb5b6           103;202         #d6cbca           10;76         #6f504c           10;76         #6f504c           10;76         #6f504c           10;76         #6f504c           10;76         #6f504c           10;76         #6f504c           10;77         #claead           94;190         #d4c2be           9;66         #804f42           20;111         #a0786f           660;150         #bea996           96;190         #dac4be           10;510         #bea996           96;190         #dac4be           100;56         #a16460           100;96         #a16460           100;96         #a16460           100;96         #a16460           100;96         #a16460           100;96         #a1645502           11;205         #c732af	COLOURNAME BARCODE 38489181 4059272 42502039 454 55 <b>7</b> 43554476 44805310 45924560 38030971	22 20 20 20 20 20 20 20 20 20 20 20 20 2	ECTRONAME 6 AT * 12-04-04 07:25:46 12-04-04 07:25
				Back Next 🐎

**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

COLOURCODE: The name or code of the color

RGB\_HTML: The RGB values of the color in the HTML format

BARCODE: The bar code of the color.

SPECTRONAME: The name of the spectrophotometer

**MEASURETYPE:** The measurement type. See measurement type options below.

**AD65:** The a\* component of the color values when using D65 light source.

THICKNESS: The thickness of the draw down used in the measurements.

**R**,**G**,**B**: The colour values with R, G, B units.

COLOURNAME: The name of the colour.

SUBSTRATECODE: The substrate code.

**MEASUREDATE:** The date of the measurement.

LD65: The L\* component of the color values when using D65 light source.

BD65: The b\* component of the color values when using D65 light source.

**REFLECTANCE:** The reflectance values.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

**7.OUTPUT:** The preview window of the exported data.

8.ZONE: Dropdown list to select zone

Next window in the export wizard is: Color card renaming

Free form .txt export Exportable items: Select export type: Export settings Column separato Tab 0 Colors Comma 2 Custom: Olor cards Sub item separato Sub sub item COLOURCODE CARDNAME Oefault (:) Oefault (;) Formula 1 Tab ○ Tab Custom: O Custom: 3 Δ Product barcodes Default Zone Zone: Output Export item order 5 CARDNAME COLOURCODE Indate Pr CARDNAME COLOURCODE 6 Aquatec SF ASF 1010 ASF 1011 Aquatec SF Aquatec SF Aquatec SF ASF 1012 ASF 1013 ASF 1014 Aquatec SF Aquatec SF ASF 1020 Aquatec SF ASF 1021 Aquatec SF Aquatec SF ASF 1022 ASF 1023 Aquatec SF Aquatec SF ASF 1024 ASE 1030 Aquatec SF ASF 1031 Aquatec SF Aquatec SF ASF 1032 ASF 1033 Aquatec SF Aquatec SF ASF 1034 ASF 1040 ASF 1040 ASF 1041 ASF 1042 ASF 1043 Aquatec SF Aquatec SF Aquatec SF Aquatec SF ASF 1044 Aquatec SF ASF 1050 Match 1-10-1 Matching test

When **Color cards** radio button is selected on the **Free from .txt export** page, you have the following options:

**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

K Back

Next 📂

**CARDNAME:** The name or code of the color card.

COLOURCODE: The name or code of the color.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

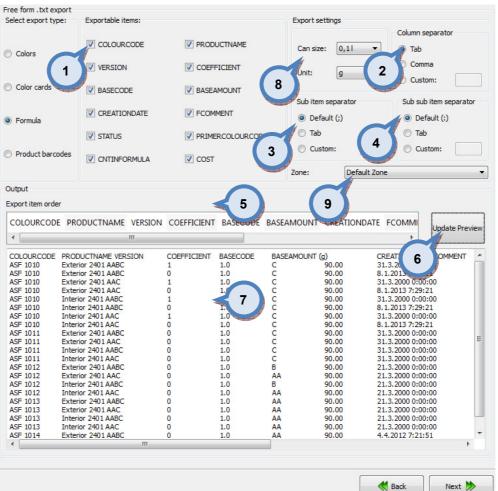
**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

7.OUTPUT: The preview window of the exported data.

Next window in the export wizard is: Color card renaming.

When **Formula** radio button is selected on the **Free from .txt export** page, you have the following options:



**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

**COLOURCODE:** The color code.

VERSION: The version number or name of the formula.

BASECODE: The base code.

**CREATIONDATE:** The formula creation date.

STATUS: The formula status.

**CNTINFORMULA:** The component (the colorant or the base paint) in the formula.

**PRODUDUCTNAME:** The product name.

**COEFFICIENT:** The number used to multiply the formula.

**BASEAMOUNT:** The base amount in the formula.

FCOMMENT: The formula comment.

**PRIMERCOLORCODE:** The code of the primer color.

**COST:** Cost of the formula.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

**7.OUTPUT:** The preview window of the exported data.

**8.CANSIZE and UNIT:** Dropdown list to select output format.

**9.ZONE:** Dropdown list to select zone.

Next window in the export wizard is: Color card renaming.

When **Product barcodes** radio button is selected on the **Free from .txt export** page, you have the following options:

Free form .txt export						
Select export type:	Exportable items:		6	Export settings Column separator		
Colors			2	<ul><li>Tab</li><li>Comma</li></ul>		
Color cards	PRODUCTNAME	BASECC	DDE	Custom:	Subaub	item separator
© Formula	CANSIZE	BARCO		<ul> <li>Default (;)</li> <li>Tab</li> </ul>	<ul> <li>Sub sub</li> <li>Defa</li> <li>Tab</li> </ul>	
Product barcodes			3	Custom: Zone: Defau	Ilt Zone	:om: 4
Output						
Export item order						
PRODUCTNAME BASE		BARCODE	5		6	Update Preview
Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC	АА АА АА В В	1  4  0,25	649990001 649990002 649990003 6499			
Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC	B C C	4  0,25  1	6499 6499990008			
Exterior 2401 AABC	с	41	649990009			
					K Back	Next ≫

**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

**PRODUCTNAME:** The product name.

CANSIZE: The can size.

**CASECODE:** The base paint code.

CARCODE: The bar code.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

**7.OUTPUT:** The preview window of the exported data.

Next window in the export wizard is: Color card renaming.

Original Code         New Code           Aquatec SF         Aquatec SF           Matching test         Matching test	Color card rename rules:					
Aquatec SF       Aquatec SF         Matching test       Matching test         Monicolor Nova 720       Monicolor Nova 720         1       2		New Code			Update prev	.ew
Monicolor Nova 720 1 2 Monicolor Nova 720 6 6	Aquatec SF		Aquatec SF	Aquatec SF	5	
Monicolor Nova 720 Monicolor Nova 720 2 6 6	Matching test	Matching test	Matching test	Matching test Monicolor Nova 720		
Original code New code	Monicolor Nova 720			Monicolor Nova 720		
		New code				
		4				

### In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

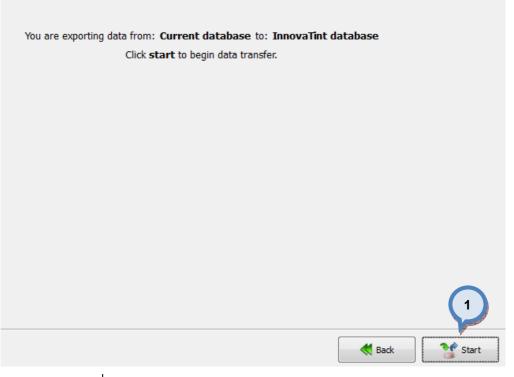
K Back

Next 📂

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

🤒 Operation Report	8 ×
Operation successfully done Operation data: Operation errors:	Details
Exported data	Count
	I Ok

## 4.5.4 Export from the current database into the database installation package

The database installation package is can only be used with the LAB software version.

When current database is selected as source type and Database installation package is selected as destination type, the following options are available:

Source and Destination selections	
Select source Source Type: Current database	Select destination Destination Type: Database installation package Destination settings 2 Folder: C: Users \TBackman \Desktop \dbtest 3
<b>1.Source type:</b> The drop do	wn list to select a source database type.

·Yŀ ጉ

**2.Destination type:** The drop down list to select a destination database type.

**3.Folder:** The text field to input the folder for the destination file. Use ..... button to browse for a folder.

Next window in the export wizard is: Datatypes selection

## In the **Datatypes selection** page, you have the following options:

atatypes selection							
Characterization							·
Characterization	samples						
Data needed for	matching	(1)					
Colors		and the second sec					
Color information	ië.						
Color reflectance	information						
V Formulas							
Update other pro	ducts using	same formula					
Only the formula:	s that do no	t break the rule	es				
Formulas after:	1.1.1970						•
V Formula history							
Systems							
Colorants information	ation						-
Products							
Product related in	nformation						
V Pricing							
Price basapaint in	formation						
Price basepaint c	an informati	on					
Price cansize info	rmation						
Price colorant infe	ormation						
Price common info	ormation						
Price locking infor	mation						
Price product info	ormation						
Price product colo	or margin inf	ormation					
Other							
Units information	i.						
					ſ	44	<b>N</b>
						K Back	Next ≫

 $\ensuremath{\textbf{1}}. \ensuremath{\textbf{W}}\xspace \ensuremath{\textbf{her}}\xspace$  boxes are enabled, the corresponding information is included in to the export file.

### Characterizations

- Characterization samples
- **Data needed for matching:** When this option is selected, also Colorants information as well as the Color reflectance information has to be included.

### Colors

- Color information
- Color reflectance information

### Formulas

- Update other products using same formula
- Only the formulas that do not break the rules
- **Formulas after:** The text field to type in the date of the oldest possible formula included in to the export file.
- Formula history

#### Systems

- Colorants information

### Products

- Product related information

# Pricing

- Price basepaint information
- Price basepaint can information
- Price cansize information
- Price colorant information
- Price common information
- Price locking information
- Price product information
- Price product color margin information

# Other

- Units information

Next window in the export wizard is: Zones and Systems checklist

## In the **Zones and Systems checklist** page, you have the following options:

**1.Zones:** When check box is enabled, the corresponding zone is included in to the export file.

**2.Systems:** When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and Color cards checklist.



### In the **Products and Color cards checklist** page, you have the following options:

1.Product template: The drop down list to select a product template. Use 🔳 button to save a template, and 뾛 button to delete a selected template.

2.Products: When check box is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

button to save a template, and 🔎 button to delete a selected Use 🛄 template.

4.Color cards: When check box is enabled, the corresponding color card is included in to the export file.

5.Colors not in any color card: When the check box in enabled. also the color not belonging to any color card will be included in to the export file.

Next window in the export wizard is: Color card renaming.

In the Color card renaming page,	, you have the following options:
----------------------------------	-----------------------------------

Installation package na	ame:	COROB InnovaTint Data Setup	
Users:		Create default users (ITA,ITU,ITR) into database	
Color card rename rules: Original Code	New Code	Original Code Changed Code	Update preview
Aquatec SF Matching Monicolo	Aquatec SF Matching test Monicolor No	<ul> <li>Aquatec SF Aquatec SF</li> <li>Matching test Matching test</li> <li>Monicolor Monicolor Nova 720</li> </ul>	5
Color code rename rules:			
Original code 3	New code		

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3.Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

K Back

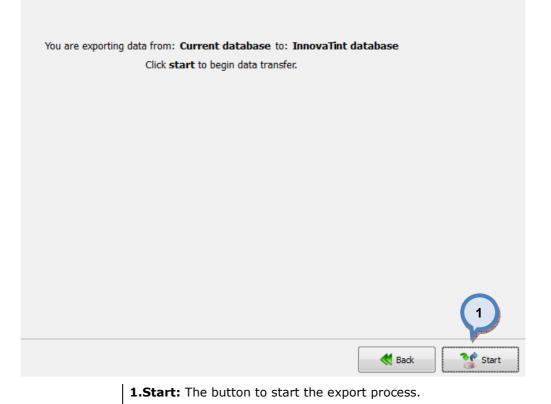
Next 눩

**6.Table:** Table to preview the changes made.

**7. Create default users (ITA, ITU, ITR) into database:** When the checkbox is enabled default user information is created to the database.

Next window in the export wizard is: **Start export**.

In the **Start export** page, you have the following options:



When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

Operation data: Operation errors:	
Exported data	Count
Action barcodes	1
Can sizes	8
Characterization sets	1
Color Cards	3
Colorants	16
Formulas	3721
Matching settings	0
Products	4
Substrates	4
Systems	1
Units	8
Zone color cards	1
Zone products	1

# 4.5.5 Export from the current database into the shop database installation package

When **current database** is selected as source type and **Shop database installation package** is selected as destination type, the following options are available:

Select source Source Type: Current database	Select destination Destination Type: Shop database installation package Destination settings Folder: C:\Users\TBackman\Desktop\dbtest
	Back Next ≽
	lown list to select a source database type rop down list to select a destination data

**2.Destination type:** The drop down list to select a destination database type.**3.Folder:** The text field to input the file name and the folder for the destination file. Use .... button to browse for a folder.

Next window in the export wizard is: Datatypes selection.

## In the **Datatypes selection** page, you have the following options:

Datatypes selection	
Characterization	<b>^</b>
Characterization samples	
Data needed for matching     1	
Colors	
Color information	
✓ Color reflectance information	
Formulas	
Update other products using same formula	
Only the formulas that do not break the rules	
Formulas after: 1.1.1970	<b>•</b>
V Formula history	
Systems	
✓ Colorants information	Ξ
Products	
V Product related information	
Vrice basapaint information	
V Price basepaint an information	
V Price cansize information	
V Price colorant information	
V Price common information	
Verice locking information	
Verice product information	
✓ Price product color margin information	
Other	
Units information	<b>.</b>
	K Back Next 🏓

 ${\bf 1}. When check boxes are enabled, the corresponding information is included in to the export file.$ 

### Characterizations

- Characterization samples
- **Data needed for matching:** When this option is selected, also Colorants information as well as the Color reflectance information has to be included.

## Colors

- Color information
- Color reflectance information

#### Formulas

- Update other products using same formula
- Only the formulas that do not break the rules
- **Formulas after:** The text field to type in the date of the oldest possible formula included in to the export file.
- Formula history

#### Systems

- Colorants information

### Products

- Product related information

# Pricing

- Price basepaint information
- Price basepaint can information
- Price cansize information
- Price colorant information
- Price common information
- Price locking information
- Price product information
- Price product color margin information

# Other

- Units information

Next window in the export wizard is: Zones and Systems checklist



In the **Zones and Systems checklist** page, you have the following options:

to the export file.

2.Systems: When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and Color cards checklist



### In the **Products and Color cards checklist** page, you have the following options:

1.Product template: The drop down list to select a product template. Use 🔳 button to save a template, and 뾛 button to delete a selected template.

2.Products: When check box is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

button to save a template, and 🔎 button to delete a selected Use 🛄 template.

4.Color cards: When check box is enabled, the corresponding color card is included in to the export file.

5.Colors not in any color card: When the check box in enabled. also the color not belonging to any color card will be included in to the export file.

Next window in the export wizard is: Color card renaming.

#### In the **Color card renaming** page, you have the following options:

Databases for export: Users: Create default users (ITA,ITU,ITR) into database	
Color card rename rules: 7 Update previ Original Code New Gode 7	view
Orininal Code New Gode     Aquatec 1 Aquatec SF   Matching test     Monicolor Nova 720        Monicolor Nova 720     Monicolor Nova 720     Monicolor Nova 720     Color code rename rules:     Original code     New code     3     4     Image: Color code rename rules:     Original code     New code     4     Image: Color code rename rules:     Original code     New code     Image: Color code rename rules:     Original code     New code     Image: Color code rename rules:     Original code     New code     Image: Color code rename rules:     Original code     Image: Color code rename rules:     Original code     Image: Color code rename rules:     Image: Color code rename rules: <th></th>	

1.Original code: name of the color card

2.New code: new name of the color card

3. Original code: Prefix to be changed

4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

K Back

Next 📂

**6.Table:** Table to preview the changes made.

**7.Create default users (ITA, ITU, ITR) into database:** When the checkbox is enabled default user information is created to the database.

**8.Databases for export:** Radio buttons to select type of installer package, options are:

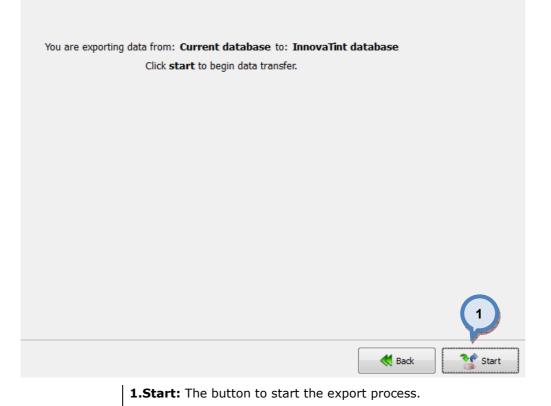
- Main and local database; usually for the new installations

- Main database only; usually cases where shop keeper has collected customer information and do not want to lose that information. Local database is empty, and by installing it all data is lost.

**9.Installation package name:** Text field to change the name of exported installation package.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



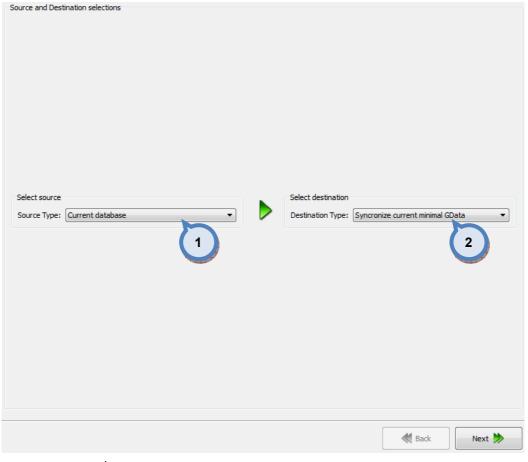
When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

Count
1
8
1
3
16
3721
0
4
4
1
8
1
1

## 4.5.6 Synchronize from the current database into the minimal Gdata

This function will create a minimal Gdata package to be used with the CorobTech-program and the Corob tinting equipment.

When **current database** is selected as source type and **Synchronize current minimal Gdata** is selected as destination type, the following options are available:

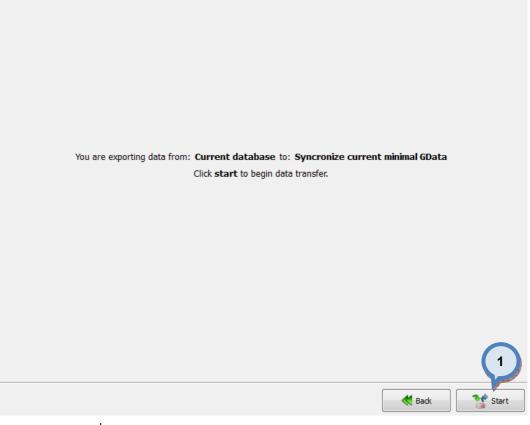


**1.Source type:** The drop down list to select a source database type.

**2.Destination type:** The drop down list to select a destination database type.

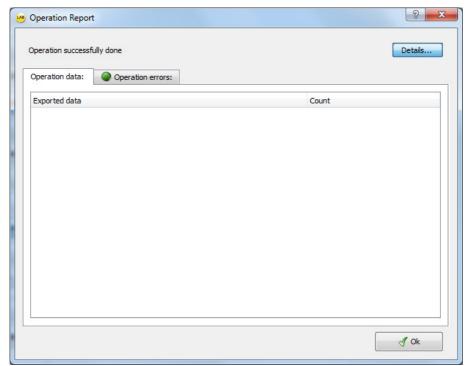
Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.



#### 4.5.7 Export from the Innovatint database into the current database

When **Innovatint database** is selected as source type and **current database** is selected as destination type, the following options are available:

Source and Destination selections	Select destination Destination Type: Current Destination settings Enable rollback Note: This will allow ur Data conflict handling Insert only new dat (existing data will no Update destination and inserts missing	ndo the import.	3
		Back	Next 눩

**1.Source type:** The drop down list to select a source database type.

**2.Source settings:** The database and user information selectors:

**Database:** The drop down menu to select a source database.

**Username:** The text field to enter a user name.

**Password:** The text field to enter a password.

**3.Destination type:** The drop down list to select a destination database type.

**4.Enable rollback:** When the check box is enabled, the previous database can be restored.

**5.Dataconflict handling:** With the radio buttons, you can select what is done when both source and destination databases has values in the same data item. Options are: Insert only new data, and overwrite existing data and insert missing values.

Next window in the export wizard is: Datatypes selection

### In the **Datatypes selection** page, you have the following options:

atatypes selection					
Characterization					
Characterization	samples				
Data needed for	matching	1			
Colors	4	and the second			
Color information	12				
Color reflectance	information				
V Formulas					
Update other pro	oducts using sam	e formula			
Only the formula:	s that do not bre	eak the rules			
Formulas after:	1.1.1970				•
Formula history					
Systems					
Colorants informa	ation				-
Products					
Product related in	nformation				
V Pricing					
Price basapaint in	nformation				
Price basepaint c	an information				
Price cansize info	rmation				
Price colorant info	ormation				
Price common info	ormation				
Price locking infor	rmation				
Price product info	ormation				
Price product cold	or margin inform	ation			
0ther					
Units information	18				
				4	
				K Back	Next ≫

 $\ensuremath{\textbf{1}}. \ensuremath{\textbf{W}}\xspace \ensuremath{\textbf{her}}\xspace$  boxes are enabled, the corresponding information is included in to the export file.

#### Characterizations

- Characterization samples
- **Data needed for matching:** When this option is selected, also Colorants information as well as the Color reflectance information has to be included.

#### Colors

- Color information
- Color reflectance information

#### Formulas

- Update other products using same formula
- Only the formulas that do not break the rules
- **Formulas after:** The text field to type in the date of the oldest possible formula included in to the export file.
- Formula history

#### Systems

- Colorants information

#### Products

- Product related information

# Pricing

- Price basepaint information
- Price basepaint can information
- Price cansize information
- Price colorant information
- Price common information
- Price locking information
- Price product information
- Price product color margin information

## Other

- Units information

Next window in the export wizard is: Zones and Systems checklist

### In the **Zones and Systems checklist** page, you have the following options:

**1.Zones:** When check box is enabled, the corresponding zone is included in to the export file.

**2.Systems:** When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and Color cards checklist.



#### In the Products and Color cards checklist page, you have the following options:

**1.Product template:** The drop down list to select a product template. Use

🔳 button to save a template, and 魐 button to delete a selected template.

**2.Products:** When check box is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

Use 🔲 button to save a template, and 🔎 button to delete a selected template.

**4.Color cards:** When check box is enabled, the corresponding color card is included in to the export file.

**5.Colors not in any color card:** When the check box in enabled, also the color not belonging to any color card will be included in to the export file.

Next window in the export wizard is: Color card renaming.

Color card rename rules:				
Original Code	New Code			Update preview
Aquatec SF	Aquatec SF	Original Code Aquatec SF	Changed Code Aquatec SF	5
Matching test	Matching test	Matching test		
Monicolor Nova 720	Monicolor Nova 720	6		
olor code rename rules: Original code	New code			
3	4			

#### In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

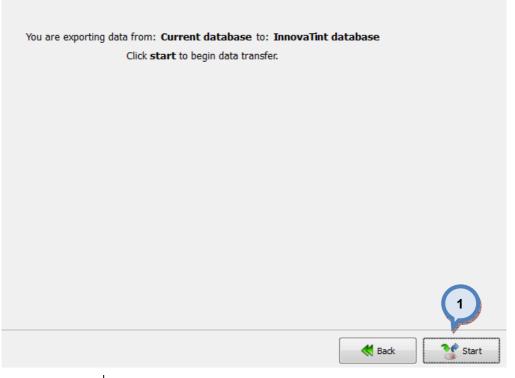
K Back

Next 📂

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

Operation Report	<u> २</u> ×
Operation successfully done	Details
Operation data: Operation errors:	
Exported data	Count
	J Ok

### In the **Commit import** page, you have the following options:



1.Rollback import: The button cancel the import process.

**2.Commit import:** The button to proceed to finalize the import. Note: after clicking the button, import operation cannot be undone.

# 4.5.8 Export from the Colour Composer 9 database into the current database

When **Colour Composer 9 database** is selected as source type and **current database** is selected as destination type, the following options are available:

<ul> <li>Source and Destination :</li> </ul>	selections
Select source Source Type: Color ( Source settings Database: ccda Username: cca Password: •••	2 Destination settings 5
	Back Next ≽
	<b>1.Select source:</b> The drop down list to select a source database type.
	2.Database: The drop down menu to select a source database.
	<b>3.Username:</b> The text field to enter a user name for the source database.
	<b>4.Password:</b> The text field to enter a password for the source database.
	<b>5.Destination type:</b> The drop down list to select a destination database type
	<b>6.Enable rollback:</b> When the check box is enabled, the previous database cabe restored.
	<b>7.Dataconflict handling:</b> With the radio buttons, you can select what is dor when both source and destination databases has values in the same data iter Options are: Insert only new data, and overwrite existing data and inser missing values.
	Next window in the export wizard is: Datatypes selection.

Note: Colour Composer 9 database must have an unique server name set in its ODBC settings.

### In the **Datatypes selection** page, you have the following options:

Datatypes selection	
Characterization	
Colors	
Color cards information	
Color information	
Color reflectance information	
V Formulas	
Update other products using same formula	
Only the formulas that do not break the rules	
Systems	
Colorants information	
V System information	
Products	
✓ Product related information	
V Pricing	
Other	
ouer	
Units information	
	Back Next 🐎

 $\ensuremath{\textbf{1}}. \ensuremath{\textbf{W}}\xspace \ensuremath{\textbf{her}}\xspace$  boxes are enabled, the corresponding information is included in to the export file.

Colors

- Color cards information
- Color information
- Color reflectance information

#### Formulas

- Update other products using same formula
- Only the formulas that do not break the rules

#### Systems

- Colorants information
- System information

#### Products

- Product related information

#### Pricing

# **Units information**

Next window in the export wizard is: Zones and Systems checklist

Zones and Systems checklist				
Zones		Systems		
1 cueive default zone name: 2 zone currency symbol: 2 zone currency decimals: 3	Default Zone ▼ € 2 ★	Monicolor 2400 Monicolor 2401 Temacolor 6204		
		Temacolor 6212		
			<b>Back</b>	Next ≫

#### In the **Zones and Systems checklist** page, you have the following options:

**1.Give default zone name:** The drop down field to select a zone, or to create new.

2.Zone currency symbol: The text box to enter a currency symbol

**3.Zone currency decimals:** The selector field to select the number of decimals used for the currency values.

**4.Systems:** When check box is enabled, the corresponding system is included in to the export file.

Next window in the export wizard is: Products and color card checklist.



#### In the **Products and Color cards checklist** page, you have the following options:

1.Product template: The drop down list to select a product template. Use 🔳 button to save a template, and 뾛 button to delete a selected template.

2.Products: When check box is enabled, the corresponding product is included in to the export file.

3.Color card template: The drop down list to select a color card template.

button to save a template, and 🔎 button to delete a selected Use 🛄 template.

4.Color cards: When check box is enabled, the corresponding color card is included in to the export file.

5.Colors not in any color card: When the check box in enabled. also the color not belonging to any color card will be included in to the export file.

Next window in the export wizard is: Colour Composer 9 database can sizes

in the Colour Composer 9 database ca	<b>n sizes</b> page, you	have the following options:
--------------------------------------	--------------------------	-----------------------------

Can size code	Nominal amount	Gravimetric
I	1000	
1	2	3
Save changes to Colour Con	4 proser 9 Database	
		Back Next 🏓

**1.Can size code:** The text field for the can size code.

**2.Nominal amount:** The text field for the can size (nominal amount). You can change the amount by double clicking the cell with the left mouse button. The unit of the measure is millilitres, or grams if the gravimetric check box is selected in section (3).

**3.Gravimetric:** When the check box is enabled, the can size is treated as gravimetric, otherwise the can size is treated as volumetric.

**4.Save changes to Colour Composer 9 database:** The button to save changes made to can nominal amounts (item (2)) into to the Colour Composer 9 database (the source database).

Next window in the export wizard is: Colorant specific gravity.

1.33         1.29         1.28         1.37         1.4         1.38         1.36         1.22	
1.28 1.37 1.4 1.38 1.36	
1.37 1.4 1.38 1.36	
1.4 1.38 1.36	
1.38 1.36	
1.36	
1 22	
1.24	
1.82	
1.68	
1.29	
1.24	
1.85 2	
2.09	
1.29	
1.12	
1.23	
1.1	
1.33	
1.28	
1.37	
1.4	
1.1	
1.38	
1.36	
	1.68         1.29         1.24         1.85         2.09         1.29         1.29         1.12         1.23         1.1         1.33         1.28         1.37         1.4         1.1         1.38

#### In the **Colorant specific gravity** page, you have the following options:

**1.Colorant:** The text field for the colorant code.

**2.Specific gravity:** The text field for the colorant specific gravity. You can change the amount by double clicking the cell with the left mouse button. The unit of the measure is kg/litre.

**3.Save changes to Colour Composer 9 database:** The button to save changes made to colorant specific gravity (item (2)) into to the Colour Composer 9 database (the source database).

Next window in the export wizard is: Color card renaming.

Color card rename rules:				
Original Code	New Code			Update preview
Aquatec SF	Aquatec SF		Changed Code Aquatec SF	5
Matching test	Matching test	Matching test	Matching test Monicolor Nova 720	the second se
Monicolor Nova 720	Monicolor Nova 720	6		
Color code rename rules: Original code	New code			

#### In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

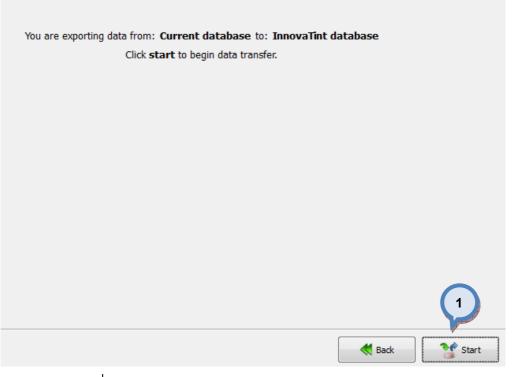
K Back

Next 📂

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

Operation Report	8 ×
Operation successfully done	Details
Operation data: Operation errors:	
Exported data	Count
	J Ok

### In the **Commit import** page, you have the following options:



1.Rollback import: The button cancel the import process.

**2.Commit import:** The button to proceed to finalize the import. Note: after clicking the button, import operation cannot be undone.

#### 4.5.9 Export from the Gdata into the current database

When **Gdata** is selected as source type and **current database** is selected as destination type, the following options are available:

Source and Destination selections	Select destination	
Source Type: GData Source settings GData:	Destination Type: Current database  Destination settings  Fnable rollback Note: This will allow undo the in Data conflict handling  Insert only new data (existing data will not be updated) Update destination values and inserts missing data	
	Back Next ≽	

**1.Source Type:** The drop down list to select a source database type.

2.Gdata: The drop down list to select a source database.

**3.Destination Type:** The drop down list to select a destination database type.

**4.Enable rollback:** When the check box is enabled, the previous database can be restored.

**5.Data conflict handling:** With the radio buttons, you can select what is done when both source and destination databases has values in the same data item. Options are: Insert only new data, and overwrite existing data and insert missing values.

Next window in the export wizard is: Product naming in Gdata.

	product name 💿 Use product name + subproduc	
Gdata product name 1	Gdata Sub product name	InnovaTint product name
Iltra Premium	Name Trans. Name of A	Reportment taxes
Iltra Premium	Augustiness land	Regulation later
Itra Premium		Regard South Thease
ltra Premium		
ltra Premium		
Itra Premium	Report Court Div Reads	2
Itra Premium		
remium Exterior	Report out Constant Sector 1	Regarding Constants - Rest - 10
remium Exterior		
remium Exterior	The Constant Press Mark	Her Canadi Tancilla
remium Exterior	August Court Plan	Regard Loss Plan
remium Interior	Report Restor Product States	Reprinter Protection
remium Interior		
andard		
tandard		
namel	Report Roads - Marco Reserved	Regardinate these inserval
/ood Solvent- based	Wood Stain gloss	Wood Stain gloss
/ood Solvent- based	Wood Stain semi gloss	Wood Stain semi gloss
Wood Solvent- based	Delight WoodStain gloss	Delight WoodStain gloss

**1.Product naming:** The radio buttons which are used to select the naming method when transferring the data from the Gdata into the Innovatint. Options are: Use Gdata product name, Use Gdata subproduct name, and Use Gdata product name and subproduct name. You can see both Gdata product name and the Gdata sub product names in the table as well as the suggested Innovatint name based on your selection.

K Back

Next 📂

**2.Innovatint product name:** The column in the list that shows suggested product name to be used in the Innovatint, based on the selection in the section (1). You can also manually edit the Innovatint name. Activate the edit mode by double clicking the text field with left mouse button.

**3.Row with the red background color:** When the naming is not unique, i.e. there are two or more products in the Innovatint product name column with the same name, those rows are marked with the red background color. Double click with left mouse button to edit the name manually.

Next window in the export wizard is: Color code / color name.

	<ul> <li>Auto color code ge</li> <li>Manual color code</li> </ul>		
2	Use <b>\$1,\$2,\$3,\$c</b> to Other characters car	decripe gdata keys ( <b>KEY1, KEY2, KEY3,COMMENT</b> be used freely.	).
	(Note: Color code ma	ax lenght 24 chars. Rest is ignored!)	
	Color code pattern:	\$1 COLOR \$2	3
	Preview code:	001-1 COLOR Felicity	
	<ul> <li>Auto color name ge</li> <li>Manual color name</li> </ul>		
2	Color name pattern:	CPS \$1	3
	Preview name:	CPS 001-1	

**1.Auto color code / name generation:** When the radio button is selected, color code / color name is generated automatically by combining the Gdata fields (KEY1-3+Comment) to generate the unique codes/names.

**2.Manual color code / name generation:** When the radio button is selected, color code / color name can be set manually, by typing the pattern into field (3).

**3.Color code / name pattern:** The text field to type in the pattern of how the color code / color name is generated. Use \$1, \$2, \$3, \$c characters to use Gdata keys in the code / name, i.e KEY1, KEY2, KEY3, COMMENT. Other characters can be freely added. Preview of the first code / name is shown on the field (4).

**Note:** If the given rule generates identical codes, the duplicates generated are neglected, as only the unique codes are accepted.

Next window in the export wizard is: Product base rename.

Product name	Base code	Abstract base code	Description
	BGST1-A	BGST1-A	The second s
	BGST1-B	BGST1-B	
	BGST1-C	BGST1-C	
-	BGST1-D	BGST1-D	
	BGS-A	BGS-A	Report Research and a little
<u> </u>	BGS-B	BGS-B	Report Research and a little
	BGS-C	BGS-C	Report Reserves and a
	BGS-D	BGS-D	Report Roads - Table - Th
	BGSN-A	BGSN-A	Report Roads (Reasoning
	BGSN-B	BGSN-B	Report House House H
	BGSN-C	BGSN-C	Regar Read Reason
	BGSN-D	BGSN-D	Report Rest Classes (1)
	BGSG-C	BGSG-C	Report Real Property and Control of States
	BGSG-D	BGSG-D	Report Control of Cont
	BGSG-A	BGSG-A	Report Rest Courses of the State
	BGSG-B	BGSG-B	Report Control open of the U
	SNE-D	SNE-D	
	SNE-A	SNE-A	
	SNE-B	SNE-B	
	SNE-C	SNE-C	
August Count of Changes	BCUV-D	BCUV-D	Report and the Report I
	BCUV-A	BCUV-A	Report and the Report of
Auger Court of Change	BCUV-B	BCUV-B	Regardence (1) - Reason (1)
	BCUV-C	BCUV-C	Report Control (Strategy)
	SNEM-SG-A	SNEM-SG-A	

**1.Table:** The table to preview the Product name, the Base code, the Abstract base code, and the Description. The base code is dependent on the selection on the section (2). Or you can double click the cell to manually change the codes.

K Back

Next 🟓

**2.Use first / last:** The radio button to select if the first or last characters of the product name are used as the Base code. Use selector field (3) to set how many characters are used. The maximum number of the characters are 12.

**3.Characters as base code:** The selector field to set how many characters are used in the base code. The maximum number of the characters are 12.

**4.Apply on invalid:** When the check box is enabled, and if there are invalid Base codes (i.e. marked with the red background color), the rules on sections (2) and (3) are applied.

**5.Apply:** The button to generate the base codes based on the rules (2), (3), and (4).

Next window in the export wizard is: Base paint filling levels.

4 Example: Can si	t fill levels manually ze 20 l, nominal amount 18000 ml and bas nula base amount to be 16200 ml.	e paint fill level 90 %	
oduct name	Base code	Base paint stringe	
	BGST1-A	100.00 5	
	BGST1-B	100.00	
	BGST1-C	100.00 %	
1	BGST1-D	100.00 %	
	BGS-A	100.00 %	
	BGS-B	100.00 %	
	BGS-C	100.00 %	
	BGS-D	100.00 %	
	BGSN-A	100.00 %	
	BGSN-B	100.00 %	
perference income	BGSN-C	100.00 %	
	BGSN-D	100.00 %	
	BGSG-C	100.00 %	
	BGSG-D	100.00 %	
	BGSG-A	100.00 %	
	BGSG-B	100.00 %	
alas Baati	SNE-D	100.00 %	
and the second se	SNE-A	100.00 %	
and the second	SNE-B	100.00 %	
	SNE-C	100.00 %	
an Court of Change	BCUV-D	100.00 %	
an Court Mr. Manager	BCUV-A	100.00 %	
and the local difference	BCUV-B	100.00 %	
and the second second	BCUV-C	100.00 %	
	CNEAL COLA	100.00.0/	

**1.Table:** The table to preview the Product name, the Base code, the Base paint filling level.

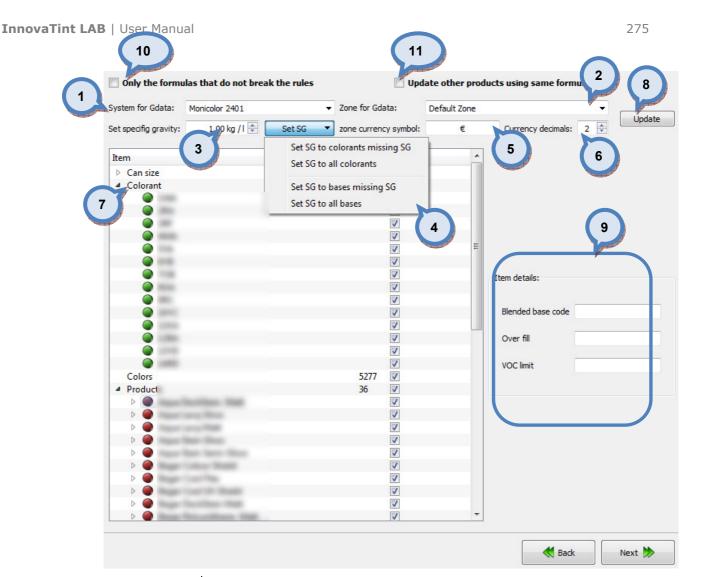
**2.Use:** When the radio button is selected the number in the selector field (3) is used as base paint filling level, when filling level is not specified for the base paint.

**3.as base paint filling level of base paint amount:** The number in the selector field is used as base paint filling level, when filling level is not specified for the base paint. (Radio button 2/4 has to be selected as 2.

**4.Set base paint fill levels manually:** When the radio button is selected, the base paint filling levels can be set manually into the column (5).

**5.Base paint fill level:** The column to display the filling levels of the base paints. To manually edit the filling levels, set radio button (4) and double click the column with the left mouse button.

Next window in the export wizard is: System for Gdata.



1.System for Gdata: The drop down list to select the system for the Gdata.

**2.Zone for Gdata:** The drop down list to select the zone for the Gdata.

**3.Set specific gravity:** The selector field to set a density for the items selected with button (4).

**4.Set SG:** The button (the drop down list opens up with the click) set specific gravity value set in field (3) to items:

-The colorants that are missing the specific gravity value.

-The all of the colorants.

-The base paints that are missing the specific gravity value.

-The all of the base paints.

**5.currency symbol:** The text field to enter a used currency symbol, like  $\in$ , \$,or  $\pounds$ .

**6.Currency decimals:** The selector field to select how many decimals are used in the currency.

**7.Items:** The table to display all of the items: Can size, Colorant, Colors, Products, and Formulas. Click on the  $\blacktriangleright$  symbol to navigate to the lower levels on each of the items. Items which require attention are marked with red traffic light. Import will not succeed unless all areas fixed, use Update after the changes (8)

**8.Update:** The button to update items table (7) based on the selections on the previous fields.

**9.Item details:** The window section to display detailed items on each of items (7), when any one of them is selected (highlighted). When navigating into the lower levels on the items table (7), more item details are shown on the section (9). See further details about this one the following pages.

**10. Only the formulas that do not break the rules:** If the check box is enabled, only valid formulas get imported, see more information **Matching rules** area.

**11. Update other products using same formula:** If the check box is enabled all products using the updated formula will get the same.

Some Gdata's are constructed assuming that base paint volumes are litres instead of millilitres as they are supposed to be. To prevent misconfiguration during the import additional checking for these occasions is added.

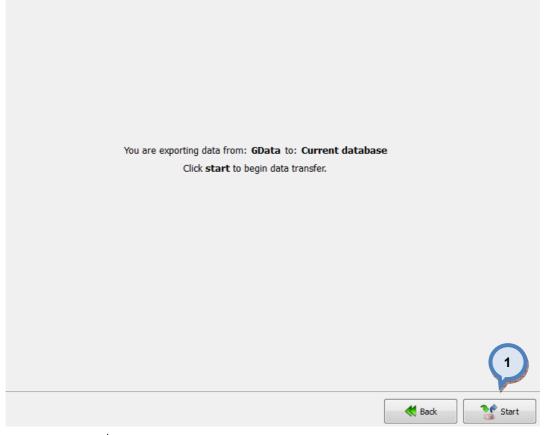
All can sizes are small (< 100 of nominal quantity).	Puestion	x
[{GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1/4 GL', 'NOMINALAMOUNT': 1.0}, {GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1 GL', 'NOMINALAMOUNT': 4.0}, {GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'2.5 GL', 'NOMINALAMOUNT': 10.0}, {GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1 L', 'NOMINALAMOUNT': 1.0}, {GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'5 L', 'NOMINALAMOUNT': 1.0}, {GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'5 L', 'NOMINALAMOUNT': 5.0}, {GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'9.46 L', 'NOMINALAMOUNT': 9.46},		
{GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1 GL', 'NOMINALAMOUNT': 4.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'2.5 GL', 'NOMINALAMOUNT': 10.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1 L', 'NOMINALAMOUNT': 1.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'5 L', 'NOMINALAMOUNT': 5.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'5 L', 'NOMINALAMOUNT': 9.46},	Yes No Hide Deta	ails
	<pre>{GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1 GL', 'NOMINALAMOUNT': 4.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'2.5 GL', 'NOMINALAMOUNT': 10.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'1 L', 'NOMINALAMOUNT': 1.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'5 L', 'NOMINALAMOUNT': 5.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'5 L', 'NOMINALAMOUNT': 5.0}, {'GRAVIMETRIC': False, 'SELECTED': True, 'CANSIZECODE': u'9.46 L', 'NOMINALAMOUNT': 9.46},</pre>	

Selected item on the table (7)	Item details	Description
Can size	non	
One specific can size (e.g. 1000ml)	Can size code	Free text
**	Gravimetric	Check box, Enabled = True
- 11	Nominal amount	Millilitres
Colorants	Non	
One specific colorant ( e.g. MS)	RGB	RGB (Color value) in 8 digit format.
w	SG (kg/l)	Specific gravity. Unit of measure is kg/litre.
N	VOC (g/l)	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.
Colors	Non	
Products	non	
One specific product	Blended base code	Free text field
	Over fill	True = T or False = F
	VOC limit	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.
One specific base paint	Abstract base code	Free text field
	Base code	Free text field
	Multiply	Number between 1- 999999999
	Max fill	Number between 0 – 1, when $0.1 = 10\%$
	Min fill	Number between 0 – 1, when $0.1=10\%$
	Nominal fill	Number between 1- 999999999
	SG (kg/l)	Specific gravity. Unit of measure is kg/litre.
	Top off	True = T or False = F
	VOC (g/l)	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.
Formulas	Non	
One specific base paint	Base amount	
	Base code	Free text
	Multiply	Number between 1- 999999999

Note:Input the required information into the field with Red, before proceeding.

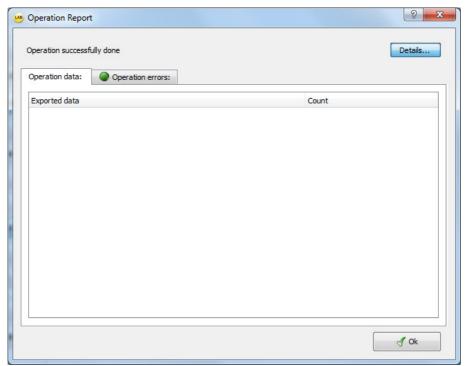
Next window in the export wizard is: Export data.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.



### In the **Commit import** page, you have the following options:



1.Rollback import: The button cancel the import process.

**2.Commit import:** The button to proceed to finalize the import. Note: after clicking the button, import operation cannot be undone.

## 4.5.10 Export from the Gdata into the free text

When **Gdata** is selected as source type and **free text** is selected as destination type, the following options are available:

	Select destination Destination Type: Free text Destination settings File: C:/Users/TBackman/Again a test.txt
<b>1.Source Type:</b> The drop d	own list to select a source database type.

**2.Gdata:** The drop down list to select a source database.

**3.Destination type:** The drop down list to select a destination database type.

**4.File:** The text field to input the folder for the destination file. Use **w** button to browse for a file.

Next window in the export wizard is: Product naming for the Gdata.

In the Product naming for the Gdata	a page, you have the following options
-------------------------------------	--

		name	
Gdata product name	Gdata Sub product name	InnovaTint product name	
JItra Premium	Report Roads - New York	Regardinant lans	
Jltra Premium	Augustana and		
Jltra Premium		Report Frank Thease	
Jltra Premium			
Jltra Premium			
Jltra Premium	Report Court March 199	2	
Jltra Premium		and the second second	
Premium Exterior	Report our Conserve Rever 1	Regard and Conserve Speech	
Premium Exterior			
Premium Exterior	Here Concern Trace Mark	Harrissen Territor	
Premium Exterior	Report Coast Plan	Report Contribution	
Premium Interior	Sugar Houses Thusses Town	Report Rest Protections	
Premium Interior			
Standard			
itandard			
itandard			
inamel	Report Road of Street Street and	Regardinger (Second Insurant)	
Wood Solvent- based	Wood Stain gloss	Wood Stain gloss	
Nood Solvent- based	Wood Stain semi gloss	Wood Stain semi gloss	

 Back 🛛 Next 🏷

**1.Product naming:** The radio buttons which are used to select the naming method when transferring the data from the Gdata into the Innovatint. Options are: Use Gdata product name, Use Gdata subproduct name, and Use Gdata product name and subproduct name. You can see both Gdata product name and the Gdata sub product names in the table as well as the suggested Innovatint name based on your selection.

**2.Innovatint product name:** The column in the list that shows suggested product name to be used in the Innovatint, based on the selection in the section (1). You can also manually edit the Innovatint name. Activate the edit mode by double clicking the text field with left mouse button.

**3.Row with the red background color:** When the naming is not unique, i.e. there are two or more products in the Innovatint product name column with the same name, those rows are marked with the red background color. Double click with left mouse button to edit the name manually.

Next window in the export wizard is: Color code / color name.

2	<ul> <li>Auto color code ge</li> <li>Manual color code</li> </ul>	generation	
and the second second	Use <b>\$1,\$2,\$3,\$c</b> to Other characters car	decripe gdata keys ( <b>KEY1, KEY2, KEY3,COMME</b> be used freely.	NT).
	(Note: Color code ma	ix lenght 24 chars. Rest is ignored!)	
	Color code pattern:	\$1 COLOR \$2	
	Preview code:	001-1 COLOR Felicity	
	<ul> <li>Auto color name ge</li> <li>Manual color name</li> </ul>		
2	Color name pattern:	CPS \$1	3
	Preview name:	CPS 001-1	

**1.Auto color code / name generation:** When the radio button is selected, color code / color name is generated automatically by combining the Gdata fields (KEY1-3+Comment) to generate the unique codes/names.

**2.Manual color code / name generation:** When the radio button is selected, color code / color name can be set manually, by typing the pattern into field (3).

**3.Color code / name pattern:** The text field to type in the pattern of how the color code / color name is generated. Use \$1, \$2, \$3, \$c characters to use Gdata keys in the code / name, i.e KEY1, KEY2, KEY3, COMMENT. Other characters can be freely added. Preview of the first code / name is shown on the field (4).

**Note:** If the given rule generates identical codes, the duplicates generated are neglected, as only the unique codes are accepted.

Next window in the export wizard is: Product base rename.

Product name	Base code	Abstract base code	Description
	BGST1-A	BGST1-A	
	BGST1-B	BGST1-B	
	BGST1-C	BGST1-C	
	BGST1-D	BGST1-D	
	BGS-A	BGS-A	Report Research and the
<u> </u>	BGS-B	BGS-B	Report Frank Control 10
	BGS-C	BGS-C	Report Reason Cases - C
	BGS-D	BGS-D	Report Reservance (1)
	BGSN-A	BGSN-A	Report Research Street St.
	BGSN-B	BGSN-B	Report House House H
	BGSN-C	BGSN-C	Report Research Connect C
	BGSN-D	BGSN-D	Report Research Street F
	BGSG-C	BGSG-C	Report Reader and a place of
	BGSG-D	BGSG-D	Report Front - series (down if
	BGSG-A	BGSG-A	Report Reader and a place in
	BGSG-B	BGSG-B	Report Front - unit - phone II
	SNE-D	SNE-D	
	SNE-A	SNE-A	
	SNE-B	SNE-B	
	SNE-C	SNE-C	
August Court Britishand	BCUV-D	BCUV-D	Report and the Research
	BCUV-A	BCUV-A	Report and the Report of
Report for the local of	BCUV-B	BCUV-B	Report and the Report R
	BCUV-C	BCUV-C	Report and the Report C
	SNEM-SG-A	SNEM-SG-A	

**1.Table:** The table to preview the Product name, the Base code, the Abstract base code, and the Description. The base code is dependent on the selection on the section (2). Or you can double click the cell to manually change the codes.

K Back

Next 🟓

**2.Use first / last:** The radio button to select if the first or last characters of the product name are used as the Base code. Use selector field (3) to set how many characters are used. The maximum number of the characters are 12.

**3.Characters as base code:** The selector field to set how many characters are used in the base code. The maximum number of the characters are 12.

**4.Apply on invalid:** When the check box is enabled, and if there are invalid Base codes (i.e. marked with the red background color), the rules on sections (2) and (3) are applied.

**5.Apply:** The button to generate the base codes based on the rules (2), (3), and (4).

Next window in the export wizard is: Base paint filling levels.

P

-	t fill levels manually		
Example: Can si will cause the forr	ze 20 l, nominal amount 18000 ml and bas nula base amount to be 16200 ml.	e paint fill level 90 %	
Product name	Base code	Base paint ellevel	
	BGST1-A	100.00 5	
	BGST1-B	100.00	
and the second se	BGST1-C	100.00 %	
	BGST1-D	100.00 %	
	BGS-A	100.00 %	
	BGS-B	100.00 %	
	BGS-C	100.00 %	
	BGS-D	100.00 %	
	BGSN-A	100.00 %	
	BGSN-B	100.00 %	
	BGSN-C	100.00 %	
	BGSN-D	100.00 %	
	BGSG-C	100.00 %	
	BGSG-D	100.00 %	
	BGSG-A	100.00 %	
	BGSG-B	100.00 %	
product Manager	SNE-D	100.00 %	
product Houses	SNE-A	100.00 %	
product Manual	SNE-B	100.00 %	
contract Property	SNE-C	100.00 %	
Approximate the Amazon	BCUV-D	100.00 %	
Agenticant Mit Meanin	BCUV-A	100.00 %	
Approximate the design	BCUV-B	100.00 %	
Approximate and the second	BCUV-C	100.00 %	
1 01114 C 1 C	CNEW CO. A	100.00.0/	

**1.Table:** The table to preview the Product name, the Base code, the Base paint filling level.

**2.Use:** When the radio button is selected the number in the selector field (3) is used as base paint filling level, when filling level is not specified for the base paint.

**3.as base paint filling level of base paint amount:** The number in the selector field is used as base paint filling level, when filling level is not specified for the base paint. (Radio button 2/4 has to be selected as 2.

**4.Set base paint fill levels manually:** When the radio button is selected, the base paint filling levels can be set manually into the column (5).

**5.Base paint fill level:** The column to display the filling levels of the base paints. To manually edit the filling levels, set radio button (4) and double click the column with the left mouse button.

Next window in the export wizard is: System for Gdata.

Set specifig gravity: 1.00 kg / 1 Set 5G O DOG CURRENCY symbol: Currency decinals: 2 Currency	System for Gdata:		✓ Zone for Gdata:	Default Zone		2 8
Item       3       4       ount Import         Can size       14       V         Colors       5277       V         Products       36       V         Formulas       48123       9		1 00 kg / I 📥 Set SG			Currency decimals:	Update
Item       3       Oburt Import       5       6         © Colorant       14       Ø       6         © Colors       5277       Ø       9         Products       36       Ø       9         Formulas       48123       Ø       9	Set specing gravity.				currency decinidis. 2	
Can size       14       V         Colorant       14       V         Colors       5277       V         Products       36       V         Formulas       48123       V	Item	3	4 ount Import		5	6
Colorant       14       Image: Colorant Supervision of the second	Can size	and the second se				
Products Formulas			14 📝			And the second se
48123 V	Colors					
					44	

1.System for Gdata: The drop down list to select the system for the Gdata.

**2.Zone for Gdata:** The drop down list to select the zone for the Gdata.

**3.Set specific gravity:** The selector field to set a density for the items selected with button (4).

**4.Set SG:** The button (the drop down list opens up with the click) set specific gravity value set in field (3) to items:

-The colorants that are missing the specific gravity value.

-The all of the colorants.

-The base paints that are missing the specific gravity value.

-The all of the base paints.

**5.currency symbol:** The text field to enter a used currency symbol, like  $\in$ , \$,or £.

**6.Currency decimals:** The selector field to select how many decimals are used in the currency.

**7.Items:** The table to display all of the items: Can size, Colorant, Colors, Products, and Formulas. Click on the  $\blacktriangleright$  symbol to navigate to the lower levels on each of the items. Items which require attention are marked with red traffic light. Import will not succeed unless all areas fixed, use Update after the changes (8)

**8.Update:** The button to update items table (7) based on the selections on the previous fields.

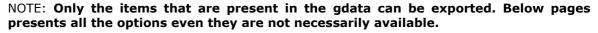
**9.Item details:** The window section to display detailed items on each of items (7), when any one of them is selected (highlighted). When navigating into the lower levels on the items table (7), more item details are shown on the section (9). See further details about this one the following pages.

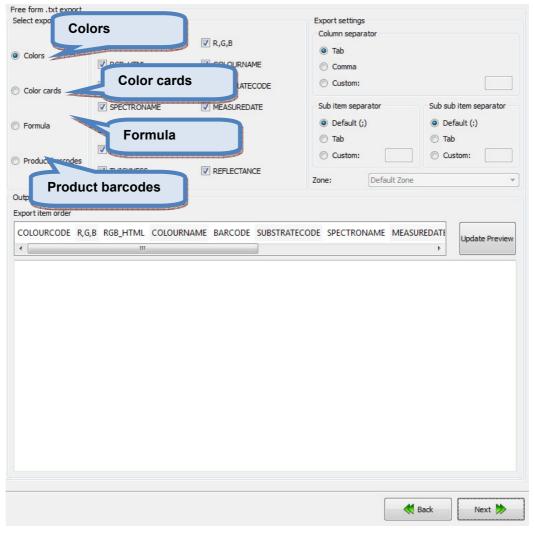
Selected item on the table (7)	Item details	Description	
Can size	non		
One specific can size (e.g. 1000ml)	Can size code	Free text	
	Gravimetric	Check box, Enabled = True	
11	Nominal amount	Millilitres	
Colorants	Non		
One specific colorant ( e.g. MS)	RGB	RGB (Color value) in 8 digit format.	
w	SG (kg/l)	Specific gravity. Unit of measure is kg/litre.	
N	VOC (g/l)	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.	
Colors	Non		
Products	non		
One specific product	Blended base code	Free text field	
	Over fill	True = T or False = F	
	VOC limit	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.	
One specific base paint	Abstract base code	Free text field	
	Base code	Free text field	
	Multiply	Number between 1- 999999999	
	Max fill	Number between 0 – 1, when $0.1 = 10\%$	
	Min fill	Number between 0 – 1, when $0.1=10\%$	
	Nominal fill	Number between 1- 999999999	
	SG (kg/l)	Specific gravity. Unit of measure is kg/litre.	
	Top off	True = T or False = F	
	VOC (g/l)	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.	
Formulas	Non		
One specific base paint	Base amount		
	Base code	Free text	
	Multiply	Number between 1- 999999999	

Note:Input the required information into the field with Red, before proceeding.

Next window in the export wizard is: Free form .txt export

In the **Free from .txt export** page, you have four export options: colors, color cards, formula, and product barcodes.





When **Colors** radio button is selected on the **Free from .txt export** page, you have the following options:

Free form .txt export				
Select export type:	Exportable items:		Export settings	
C		▼ R,G,B	Column separator	
Colors		COLOURNAME	omma	
Color cards	BARCODE	SUBSTRATECODE	2 stom:	
	SPECTRONAME	MEASUREDATE	Sub item separator	Sub sub item separator
🔘 Formula	MEASURETYPE	V LD65	Default (;)	<ul> <li>Default (:)</li> <li>Tab</li> </ul>
Product barcodes	V AD65	<b>BD65</b>	3 stom:	© Custom: 4
0	THICKNESS	REFLECTANCE	Zone: Default Zone	
Output		5	8	
Export item order		a deside the second second	<b>U</b>	
COLOURCODE R,G	B RGB_HTML COLOU	JRNAME BARCODE SUBSTR	ATECODE SPECTRONAME MEAS	UREDATI
ASF 1012 155;1		COLOURNAME BARCODE 38489181 40593272 42502039 4544	201 201 201	CTRONAME 6 ATI ^ 2-04-04 07:25:40 2-04-04 07:26:46 2-04-04 07:26:46
ASF 1020 111;8 ASF 1021 136; ASF 1022 176;	203;202 #d6cbca 30;76 #6f504c 107;109 #886b6d 152;153 #b09899 174;173 #c1aead	45 <b>7</b> 43554476	201 201 201	2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46
ASF 1030 128; ASF 1031 160; ASF 1032 190;	194;190 #d4c2be 79;66 #804f42 120;111 #a0786f 160;150 #bea096	45924560 38030971	201 201 201	2-04-04 07:26:46 E 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46
ASF 1034 233; ASF 1040 141; ASF 1041 161;	196;190 #dac4be 217;210 #e9d9d2 77;70 #8d4d46 100;96 #a16460		201 201 201	2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46
ASF 1043 215; ASF 1044 231;	146;143 #c7928f 181;178 #d7b5b2 211;205 #e7d3cd 39;67 #9d5943		201 201	2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46 2-04-04 07:26:46
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				Back Next 🏷
				HEAL /

**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

COLOURCODE: The name or code of the color

**RGB\_HTML:** The RGB values of the color in the HTML format

BARCODE: The bar code of the color.

SPECTRONAME: The name of the spectrophotometer

**MEASURETYPE:** The measurement type. See measurement type options below.

**AD65:** The a\* component of the color values when using D65 light source.

THICKNESS: The thickness of the draw down used in the measurements.

R,G,B: The colour values with R, G, B units.

COLOURNAME: The name of the colour.

SUBSTRATECODE: The substrate code.

**MEASUREDATE:** The date of the measurement.

**LD65:** The L\* component of the color values when using D65 light source.

**BD65:** The b\* component of the color values when using D65 light source.

**REFLECTANCE:** The reflectance values.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

**7.OUTPUT:** The preview window of the exported data.

8.ZONE: Dropdown list to select zone

Next window in the export wizard is: Color card renaming

Free form .txt export Exportable items: Select export type: Export settings Column separato Tab 0 Colors Comma 2 Custom: Olor cards Sub item separato Sub sub item COLOURCODE CARDNAME Oefault (:) Oefault (;) Formula 1 Tab ○ Tab Custom: O Custom: 3 Δ Product barcodes Default Zone Zone: Output Export item order 5 CARDNAME COLOURCODE Indate Pr CARDNAME COLOURCODE 6 Aquatec SF ASF 1010 ASF 1011 Aquatec SF Aquatec SF Aquatec SF ASF 1012 ASF 1013 ASF 1014 Aquatec SF Aquatec SF ASF 1020 Aquatec SF ASF 1021 Aquatec SF Aquatec SF ASF 1022 ASF 1023 Aquatec SF Aquatec SF ASF 1024 ASE 1030 Aquatec SF ASF 1031 Aquatec SF Aquatec SF ASF 1032 ASF 1033 Aquatec SF Aquatec SF ASF 1034 ASF 1040 ASF 1040 ASF 1041 ASF 1042 ASF 1043 Aquatec SF Aquatec SF Aquatec SF Aquatec SF ASF 1044 Aquatec SF ASF 1050 Match 1-10-1 Matching test

When **Color cards** radio button is selected on the **Free from .txt export** page, you have the following options:

**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

K Back

Next 📂

**CARDNAME:** The name or code of the color card.

COLOURCODE: The name or code of the color.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

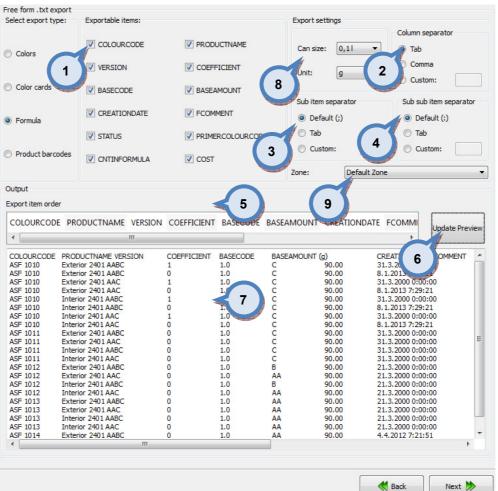
**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

7.OUTPUT: The preview window of the exported data.

Next window in the export wizard is: Color card renaming.

When **Formula** radio button is selected on the **Free from .txt export** page, you have the following options:



**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

**COLOURCODE:** The color code.

VERSION: The version number or name of the formula.

BASECODE: The base code.

**CREATIONDATE:** The formula creation date.

**STATUS:** The formula status.

**CNTINFORMULA:** The component (the colorant or the base paint) in the formula.

**PRODUDUCTNAME:** The product name.

**COEFFICIENT:** The number used to multiply the formula.

**BASEAMOUNT:** The base amount in the formula.

FCOMMENT: The formula comment.

**PRIMERCOLORCODE:** The code of the primer color.

**COST:** Cost of the formula.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

**7.OUTPUT:** The preview window of the exported data.

**8.CANSIZE and UNIT:** Dropdown list to select output format.

**9.ZONE:** Dropdown list to select zone.

Next window in the export wizard is: Color card renaming.

When **Product barcodes** radio button is selected on the **Free from .txt export** page, you have the following options:

Free form .txt export					
Select export type:	Exportable items:		Export setting Column sepa	5	
Colors			2 Tab Comma		
Color cards	PRODUCTNAME	BASECODE	Custom Sub item sep		b sub item separator
Formula	CANSIZE	BARCODE	<ul> <li>Default</li> <li>Tab</li> </ul>	(;)	Default (:) Tab
Product barcodes			3 Custom Zone:	Default Zone	Custom: 4
Output					
Export item order					
PRODUCTNAME B	ASECODE CANSIZE	BARCODE	5	6	Update Preview
Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC	AA AA AA B	1 6499	00001 00002 00003		
Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC Exterior 2401 AABC	B B C	1 64 4 0,251 649	7		
Exterior 2401 AABC Exterior 2401 AABC	c		00009		
				Back	Next 📂

**1.Exportable items:** When the check boxes are enabled, the corresponding items are included into the export. Options are:

**PRODUCTNAME:** The product name.

CANSIZE: The can size.

**CASECODE:** The base paint code.

CARCODE: The bar code.

**2.EXPORT SETTINGS/COLUMN SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**3.EXPORT SETTINGS/SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**4.EXPORT SETTINGS/SUB SUB ITEM SEPARATOR:** The separator for each of the columns are selected with the radio buttons. The options are: default(;), tab, and custom or freely selected character.

**5.EXPORT ITEM ORDER:** The view of the order of the items to be exported. The order of the items can be changed by drag-and-drop procedure.

**6.UPDATE PREVIEW:** The button to update the view on section (7) after selecting the items on the section (1).

**7.OUTPUT:** The preview window of the exported data.

Next window in the export wizard is: Color card renaming.

Color card rename rules:				
Original Code	New Code			Update preview
Aquatec SF	Aquatec SF	Original Code Aquatec SF	Changed Code Aquatec SF	5
Matching test	Matching test	Matching test		
Monicolor Nova 720	Monicolor Nova 720	6		
iolor code rename rules: Original code	New code			
3	4			

## In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

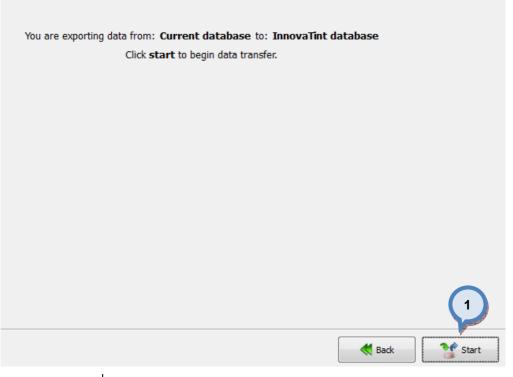
K Back

Next 📂

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

🤒 Operation Report	? ×
Operation successfully done Operation data: Operation errors:	Details
Exported data	Count
	J Ok

## 4.5.11 Export from fix-file into the current database

When **fix file** is selected as source type and **current database** is selected as destination type, the following options are available:

lect source urce Type: Fix-file Source settings File: H:/any.fix	1   Select destination   Destination Type:   Current database   Destination settings   Enable rollback   Note:   Note:   This will allow undo the import.   4   Data conflict handling   Insert only new data   (existing data will not be updated)   Update destination values   and inserts missing data
	and inserts missing data
	Back Next ≽
	<b>1.Source type:</b> The drop down list to select a source database type.
	<ul> <li><b>1.Source type:</b> The drop down list to select a source database type.</li> <li><b>2.File:</b> The text field to input the file and the folder for the destination file button to browse for a file.</li> <li><b>3.Destination type:</b> The drop down list to select a destination database to the destination database</li></ul>
	<ul> <li><b>1.Source type:</b> The drop down list to select a source database type.</li> <li><b>2.File:</b> The text field to input the file and the folder for the destination file</li> <li>button to browse for a file.</li> </ul>
	<ul> <li><b>1.Source type:</b> The drop down list to select a source database type.</li> <li><b>2.File:</b> The text field to input the file and the folder for the destination file button to browse for a file.</li> <li><b>3.Destination type:</b> The drop down list to select a destination database to <b>4.Enable rollback:</b> When the check box is enabled, the previous database</li> </ul>
	<ul> <li>1.Source type: The drop down list to select a source database type.</li> <li>2.File: The text field to input the file and the folder for the destination file button to browse for a file.</li> <li>3.Destination type: The drop down list to select a destination database to the restored.</li> <li>5.Dataconflict handling: With the radio buttons, you can select what is when both source and destination databases has values in the same data Options are: Insert only new data, and overwrite existing data and in</li> </ul>
	<ul> <li>1.Source type: The drop down list to select a source database type.</li> <li>2.File: The text field to input the file and the folder for the destination file button to browse for a file.</li> <li>3.Destination type: The drop down list to select a destination database to 4.Enable rollback: When the check box is enabled, the previous database be restored.</li> <li>5.Dataconflict handling: With the radio buttons, you can select what is when both source and destination databases has values in the same data Options are: Insert only new data, and overwrite existing data and it missing values.</li> </ul>

Product template:					- 🖪 🗱
				1 Statement	•
Select products Note: You can als	and basepaints that so link different base	you want to link to the fo es by selecting file baseco	rmulas. Ie which you want to link t	to the database basecodes.	
Product	In use	File basecode			
🔺 🔘 Exterior 2	401				
AA 🔘					-
🔵 B	3				
🔵 C 🚺	2	СВ			
🔺 🔵 Exterior 2		AA			
AA 🔘			4		
C C			and the second sec		
▲ ● Interior 24	401				
AA 🔵					
B					
C C					
▲ ● Interior 24	401				
C 🔘 C					
				K Back	Next 🐎

1.Product template: The button to start the export process.

**2.Product:** List of available products. Suitable products marked with green traffic light, others with red.

**3.In use:** If check box enabled, fix-file formulas transferred to it.

**4.File basecode:** List of base codes from the fix-file. Option to link unmatching codes together, for example, db code 'AA' = file basecode 'B'.

	In	the	formula	details	page.	vou	have	following	options	available.
--	----	-----	---------	---------	-------	-----	------	-----------	---------	------------

Load all formulas (Note: Might )	take long time!)				$\frown$
Color code prefix		5			6 Upd
Color card name		Allen and and all	8	3	
Total number of formulas: 20	00 Limit products by system: Monicolo	r 2401		and the second s	
Product name	Base	Formulas	-	em details:	
Exterior 2401 AABC		200		Base amount	1
And a	I c	63		base amount	1 10
and the second se	ASF 1010			Base code	C
	ASF 1011		=	Formula	
	ASF 1020			Colorant	Amount
	ASF 1021			Colorant	Amount
	ASF 1030			FT	0.024641666561
	ASF 1040				
	ASF 1041				
	ASF 1050			TT	0.025326156988
	ASF 1061				32
	ASF 1070			VT	0.013689815066
	ASF 1071				
	ASF 1080				
	ASF 1081			XT	0.011636342853
	ASF 1090				
	ASF 1091			Multiply	1.00
	ASF 1092			Color code	ASF 1010
	ASF 1100 ASF 1101				
	ASF 1101			Creation date	8.1.2013 0:00:00
	ASF 1110			Formula comment	NC
	ASF 1111		-		A

**1. Only the formulas that do not break the rules:** If the check box is enabled, only valid formulas get imported, see more information **Matching rules** area.

**2. Update other products using same formula:** If the check box is enabled all products using the updated formula will get the same.

**3.Load all formulas:** If Check box is enabled and Update button (6) pressed, Items table (9) will be populated with all data, else only fraction to check validity.

4.Color code prefix: Free text field to add text (prefix) on to color code

**5.Color card name:** Free text field to input color card name (if the color doesn't already belong to any).

**6.Update:** The button to update items table (9) based on the selection/changes on the other fields.

7.Total number of formulas: Number of formula to be imported

8.Limit products by system: A dropdown list to select system.

**9.Items:** The table to display fix-file main items; Product, base and color codes. Click on the  $\blacktriangleright$  -symbol to navigate to the lower levels on each item. Items which require attention are marked with red traffic light. Import will not succeed unless all the areas are fixed, use update after the changes (6)

**10.Item details:** The window section to display detailed items on each of items (9), when any one of them is selected (highlighted). When navigating into the lower levels on the items table (7), more item details are shown on the section (10). See further details about this one the following pages.

Selected item on the table (9)	Item details	Description
Product	Blended base code	Free text field
	Info page	Free text field
	Over fill	True = T or False = F
	Top off	True = T or False = F
	VOC limit	Amount of volatile organic compounds (or solvents). Unit of measure is grams/litre.
Base	Abstract base code	Free text field
	Base amount	millilitres
	Base code	Free text field
	Multiply	Number
	Nominal fill	Number between 1-9999999
	SG (kg/l)	Specifc gravity. Unit of measure is kg/litre
Single formula	Base amount	millilitres
	Base code	Free text field
	Formula	
	Multiply	Number between 1-9999999
	Color Code	Free text field
	Creation date	date
	Formula comment	Free text field

Color card rename rules:			Update preview
Original Code	New Code		
Aquatec SF	Aquatec SF	Original Code Changed Code	5
Matching test	Matching test	<ul> <li>Aquatec SF</li> <li>Aquatec SF</li> <li>Matching test</li> <li>Matching test</li> </ul>	
Monicolor Nova 720	Monicolor Nova 720	Monicolor Monicolor Nova 7	720
Color code rename rules: Original code	New code		
3	4		

## In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3.Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

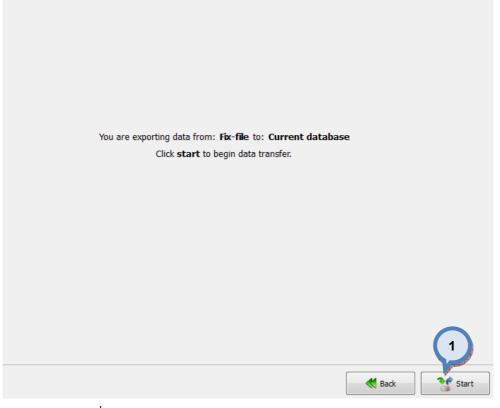
K Back

Next 🟓

**6.Table:** Table to preview the changes made.

Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

Coperation Report	? ×
Operation successfully done	Details
Operation data: Operation errors:	
Exported data	Count
	J Ok



**2.Commit import:** The button to proceed to finalize the import. Note: after clicking the button, import operation cannot be undone.

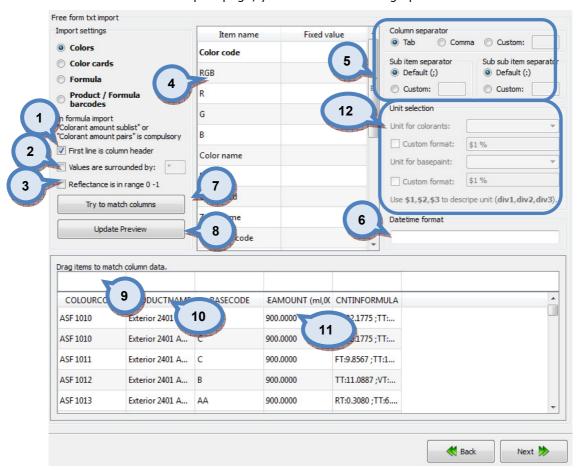
# 4.5.12 Export from free text into the current database

When **free text** is selected as source type and **current database** is selected as destination type, the following options are available:

Source and Destination se Select source Source Type: Free tex Source settings	1 Select destination Destination Type: Current database Destination settings
File: C:/Users/TBa	2       Common/Desktop/formulas.txt       Enable rollback       4         Image: Common commo
	Back Next ≫
	<b>1.Source type:</b> The drop down list to select a source database type.
	<b>2.File:</b> The text field to input the file and the folder for the destination file. Use
	button to browse for a file.
	<b>3.Destination type:</b> The drop down list to select a destination database type.
	<b>4.Enable rollback:</b> When the check box is enabled, the previous database can be restored.
	<b>5.Dataconflict handling:</b> With the radio buttons, you can select what is done when both source and destination databases has values in the same data item. Options are: Insert only new data, and overwrite existing data and insert missing values.
	Next window in the export wizard is: Free form txt import.

**Note:** The destination database must have the products set correctly before importing the data from the text file.

import se		Item name	e	Fixed va	lue	-	Colu	mn separa Tab	itor	nma	Cust	om:	
Colors Color cards Formula Product / For		r cards					Sub i	tem separ Default (;) Custom:	ator		Sub sub i Defa	tem si ult (:)	
fo import	Formul							selection for colora	nts:				Ŧ
Product pulsory bar codes		B Color name				Custom format: Unit for basepaint:		\$1%					
Reflectance is in Try to mate		Barcode Color card						Custom for <b>\$1,\$2,\$</b> 3		\$1 °		,div2	2, <b>div3</b> ).
Update F	Preview	Zone name Substrate code				Ŧ	Date	time forma	at				
rag items to match	column data.												
COLOURCODE	PRODUCTNAME	BASECODE	EAM	OUNT (ml,0(	CNTINF	ORM	IULA						*
ASF 1010	Exterior 2401 A	с	900.0	000	FT:22.177	75 ;T	T:						
ASF 1010	Exterior 2401 A	с	900.0	000	FT:22.177	75 ;T	Т:						
ASF 1011	Exterior 2401 A	с	900.0	000	FT:9.8567	7;TT	:1						
ASF 1012	Exterior 2401 A	В	900.0	000	TT:11.088	87 ;V	т:						
ASF 1013	Exterior 2401 A	AA	900.0	000	RT:0.308	TT; 0	:6						*
									🧩 i	Back		Nex	t 📂



In the **Free form txt** import page, you have the following options available:

**1.First line is column header:** When check box is enabled, the first row in the text file is assumed to contain a column headers.

**2.Values are surrounded by:** When check box is enabled, the values are assumed to be surrounded by the character displayed in the text box in the right. Default value is ".

**3.Reflectance is in range 0-1:** When check box is enabled, the reflectance values are assumed to be between 0-1. Typically, the color reflectance values are in values between 0 and 100%, but some software are using values between the number 0 and 1, when 0% = 0, and 100% = 1.

**4.Item name/Fixed value:** The list of items on the destination database. If fixed value is needed, input value into the Fixed value column.

**5.Column separator:** The separator for each of the columns are selected with the radio buttons. The options are: tab, comma, and custom or freely selected character.

**6.Datetime format:** The text field to define format to display the date and the time. To see format options, hold cursor on the top of the field, or see next page for further information.

**7.Try to match columns:** The button to try to match column from the text file into the database format. Result can be viewed on the headers on the table (8). Note: you can drag-and-drop the field header to match the correct format.

**8.Update view:** The button to update the view on table headers (9) base on the column separator settings on the item (5).

9. The table headers in the destination database.

10. The table headers in the source file.

**11.**The table of data.

**12.Unit selection:** The unit for colorants and bases can be set here. Dropdown lists have the units defined in the units area, see configuration, alternatively a custom 'temporary' format may be created,

Next window in the export wizard is: Definable items.

**Note:** If headers do not automatically match when using Try to match columns button, you can drag and drop headers from the list (4) into the header section (9).

# The Date time format options:

Directive	Meaning
<mark>*a</mark>	Locale's abbreviated weekday name.
<mark>%A</mark>	Locale's full weekday name.
<mark>%b</mark>	Locale's abbreviated month name.
<mark>%B</mark>	Locale's full month name.
<mark>%</mark> ⊂	Locale's appropriate date and time representation.
<mark>≉d</mark>	Day of the month as a decimal number [01,31].
<mark>%f</mark>	Microsecond as a decimal number [0,999999], zero-padded on the left
<mark>%</mark> Η	Hour (24-hour clock) as a decimal number [00,23].
<mark>%I</mark>	Hour (12-hour clock) as a decimal number [01,12].
<mark>%j</mark>	Day of the year as a decimal number [001,366].
<mark>%m</mark>	Month as a decimal number [01,12].
%M	Minute as a decimal number [00,59].
<b>%p</b>	Locale's equivalent of either AM or PM.
ŧS	Second as a decimal number [00,61].
₩U	Week number of the year (Sunday as the first day of the week) as a decimal number [00,53]. All days in a new year preceding the first Sunday are considered to be in week 0.
<b>%</b> ₩	Weekday as a decimal number [0(Sunday),6].
<b>%₩</b>	Week number of the year (Monday as the first day of the week) as a decimal number [00,53]. All days in a new year preceding the first Monday are considered to be in week 0.
* x	Locale's appropriate date representation.
<mark>∗</mark> Χ	Locale's appropriate time representation.
*у	Year without century as a decimal number [00,99].
¥Υ	Year with century as a decimal number.
<b>∛</b> Z	UTC offset in the form +HHMM or -HHMM (empty string if the the object is naive).
¥Ζ	Time zone name (empty string if the object is naive).
<del>% %</del>	A literal '%' character.

When the **Colors** radio button is selected on the **Free form txt** import page, you have the following options available:

import settings		Item name	Fixed value	*	Column separator		
Colors		Color code			Tab O Cor		
Color cards		RGB			Sub item separator Objective	Sub sub item separator O Default (:)	
🔘 Formula		KOD		E	Custom:	Custom:	
Product / For barcodes	mula	R		_			
In formula import		G					
"Colorant amount sublist" or "Colorant amount pairs" is compulsory		В			Unit for colorants:	\$1%	
First line is column header					Custom format:		
Values are surrounded by:		Color name			Unit for basepaint:	-	
Reflectance is in range 0 -1		Barcode			Custom format:	\$1 %	
Try to mate	th columns	Color card			Use <b>\$1,\$2,\$3</b> to des	cripe unit ( <b>div1,div2,div3</b> ).	
		Zone name			Datetime format		
Update I	Preview	Substrate code		+			
Drag items to match	column data.						
Color code	RGB	Color name	Reflectance				
COLOURCODE	R;G;B	COLOURNAME	REFLECTANCE				
ASF 1010	94;75;74		400:6.86000013				
ASF 1011	123;104;107		400:15.0100002				
ASF 1012	155;137;137		400:22.9200000				
ASF 1013	190;181;182		400:37.0400009				
ASF 1014	214:203:202		400:42.9099998				

K Back	Next ≫
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## 1.Table of items:

# Color code:

RGB = R, G, and B values in one cell, separated by ; character.

- R = R (red) value. B = B (blue) value.
- G = G (green) value.
- Color name =
- Barcode =

Color card =

- Zone name =
- Substrate code =
- Spectro =
- Measure date =
- Measure type =
- LD65 =
- AD65 =
- BD65 =

Thickness =

Reflectance = The reflectance values in one cell. Format: 400:reflectance value;420:reflectance value;440:reflectance value;etc. Starting from wavelength 400 with 20nm interval.

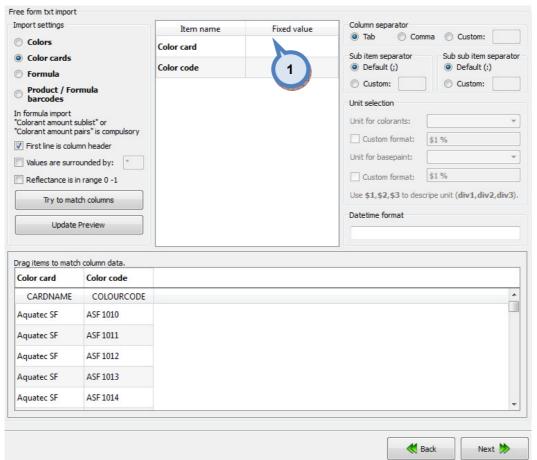
Reflectance row (10nm) = The reflectance values in separate cells. Format: reflectance value. Starting from wavelength 400 with 10nm interval.

Reflectance row (20nm) = The reflectance values in separate cells. Format: reflectance value. Starting from wavelength 400 with 20nm interval.

Next window in the export wizard is: Definable items.

Note: Only the items on bold are mandatory.

When the **Color cards** radio button is selected on the **Free form txt** import page, you have the following options available:



#### 1.Table of items:

#### **Color card:**

#### **Color code:**

Note: Typically in this page, the color card name is given as text in the Fixed value column, and the the color code is selected from the list to be imported. If several color cards are imported, color card name is displayed on the column next to the color code.

Next window in the export wizard is: Definable items.

Note: Only the items on bold are mandatory.

When the **Product barcodes** radio button is selected on the **Free form txt** import page, you have the following options available:

) Colors ) Color cards		Item nan	ne Fixed v	
Color cards		Product name		Tab      Comma      Custom:
		Base code		Sub item separator Default (;) Sub sub item separator Default (;)
) Formula		Base code		Custom:
Product / Formula barcodes		Can size		
n formula import Colorant amount su		Barcode Color code		Unit for colorants:
Colorant amount pairs" is compulsory First line is column header		color code		Custom format: \$1%
Values are surro	unded by:			Unit for basepaint:
Reflectance is in	range 0 -1			Custom format: \$1%
Try to mate	th columns			Use <b>\$1,\$2,\$3</b> to descripe unit (div1,div2,div3
				Datetime format
Update F	Preview			
rag items to match	column data.			
Product name	Base code	Can size	Barcode	
PRODUCTNAME	BASECODE	CANSIZE	BARCODE	r
Exterior 2401 A	AA	0,25	649990001	
Exterior 2401 A	AA	11	649990002	
Exterior 2401 A	AA	41	649990003	_
		0,251	649990004	
Exterior 2401 A	В			

Product name Base code Can size Barcode Color code

Next window in the export wizard is: Definable items.

Note: Only the items on bold are mandatory.

**Note:** If color code defined together with the mandatory items, formula barcodes are created. see **Other** section in the manual.

When the **Formula** radio button is selected on the **Free form txt** import page, you have the following options available:

ator			
Comma (	Comma 🔘 Custom:		
	Sub sub item separator O Default (:)		
	· · · · · · · · · · · · · · _ · · · _ · · _ · · _ · · _ · _ · _ · · _ · _ · · _ · · _ · · _ · _ · · _ · · _ · _ · · _ · · · _ · _ · _ · · _ · _ · · · _ · _ · _ · _ · · _ · · · _ · _ · _ · · _ · _ · _ · · _ · · _ · · _ · · _ · · · _ · · _ · /		
	Custom:		
ants:			
paint:	•		
ormat: \$1%	at: \$1%		
3 to descripe un	nit ( <b>div1,div2,div3</b> )		
nat			
	4		
	_		
1	1		

 Back 🛛 Next 🏓

1.Table of items: Color code Product name Version Multiply Color card Base code Base amount Creation date Formula comment Status Primer color code Colorant amount sublist = The color formula is displayed on the single cell. Format is: Colorant 1 code:Colorant 1 amount ;Colorant 2 code:Colorant 2 amount ; Colorant 3 code:Colorant 3 amount. Colorant amount pairs = Colorant code or name and amount are displayed on the comment column

**Colorant amount pairs** = Colorant code or name and amount are displayed on two separate columns. First column is for colorant code, and second column is for colorant amount in the formula. All colorants and amounts are followed on same manner on following columns. Colorant amount pairs header is needed only on the first colorant code column.

Next window in the export wizard is: Product linking

Note: Only the items on bold are mandatory.

Product template:		a market	- 🖪 🏽
Select products and b Note: You can also linl	asepaints that you k different bases b	want to link to the formulas. y selecting file basecode which you want to link to the database basecodes.	
Product	In use	File basecode	
▲			
AA 🔘			-
O B		C	
○ C 2		C B	
▲ ● Exterior 2		AA	
AA 🔘		4	
Q C		And the second	
4 🔵 Interior 2401			
AA O			
B			
C C			
<ul> <li>Interior 2401</li> <li>AA</li> </ul>			
C AA			
			]
		K Back	Next ≫

1.Product template: The button to start the export process.

**2.Product:** List of available products. Suitable products marked with green traffic light, others with red.

**3.In use:** If check box enabled, fix-file formulas transferred to it.

**4.File basecode:** List of base codes from the fix-file. Option to link unmatching codes together, for example, db code 'AA' = file basecode 'B'.

In the <b>Definable items</b> page,	you have the	following options:
-------------------------------------	--------------	--------------------

Color code prefix			3	Update
Color card name				4
otal number of colors: 201				
Color code	<b>^</b>	Item details:	6	
ASF 1010	_	Color data		
ASF 1011	E			
ASF 1012		Reflectance		
ASF 1013		WAVELENGT	H RINF ^	
ASF 1014		400	6.86000013351	
ASF 1020		420	6.96999979019 6.98000001907	
ASF 1021		460	6.94999980927	
ASF 1022				
ASF 1023		Color code ASF 10	010	
ASF 1024				
ASF 1030				
ASF 1031				
🔵 ASF 1032 🛛 📈 5	;			
ASF 1033				
ASF 1034				
ASF 1040				
ASF 1041		RGB		
ASF 1042				
ASF 1043				
ASF 1044				
ASF 1050				
ASF 1051				
ASF 1052				
ASF 1053	-			

**1. Only the formulas that do not break the rules:** If the check box is enabled, only valid formulas get imported, see more information **Matching rules** area.

**2. Update other products using same formula:** If the check box is enabled all products using the updated formula will get the same.

**3.Definable items:** Free text field to add text (prefix) on to color code and card name.

**4.Update:** The button to update the view (5) depending on the selection on item (3).

**5.Items:** The table to view exportable items. Content of it depends on the area from where import comes from formulas, color card, colors or barcodes.

**6.Item details:** details to match selection on the table. Information on the area if linked to the Items (5). Below table presents the options.

Next window in the export wizard is: Start export.

**Note:** If the imported data has missing data to complete import, it is shown in the Item table with the red traffic lights.

Import function	Selected item	Item details
Colors	Color code	Color data (reflectance)
		Color code
		RGB
Color cards	Color card	Card name
Bar code	Product	none
	Base	none
	Can size	barcode
		Can size code
Formula	Product	Blended base code
		Info page
		Over fill
		Top off
		VOC limit
	Base	Abstract base code
		Base amount
		Base code
		Multiply
		Nominal fill
		SG (kg/l)
	Single formula	Base amount
		Base code
		Formula
		Multiply
		Color Code
		Creation date
		Formula comment

Color card rename rules:			Update preview
Original Code	New Code		
Aquatec SF	Aquatec SF	Original Code Changed Code	5
Matching test	Matching test	Aquatec SF Aquatec SF     Matching test Matching test     Monicolor Monicolor Nova 720	
Monicolor Nova 720	Monicolor Nova 720	6	
Color code rename rules:	New code		
Original code	4		

## In the **Color card renaming** page, you have the following options:

- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3.Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

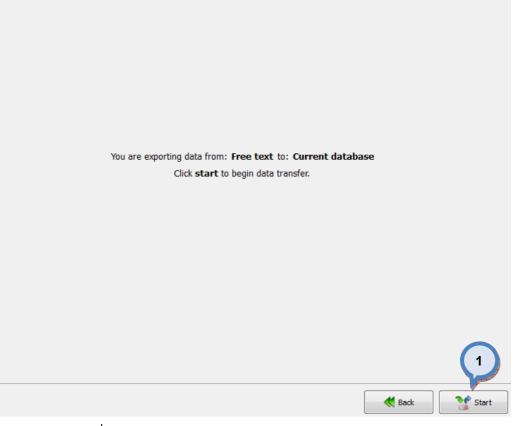
K Back

Next 🟓

**6.Table:** Table to preview the changes made.

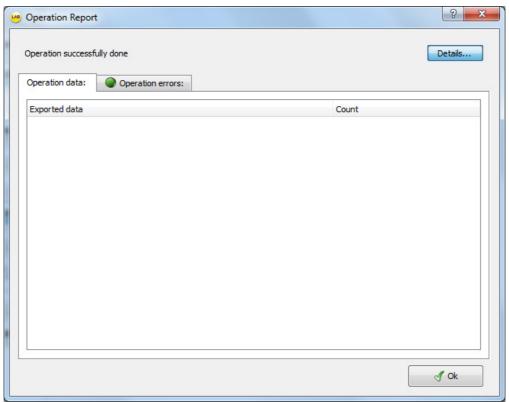
Next window in the export wizard is: **Start export**.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.

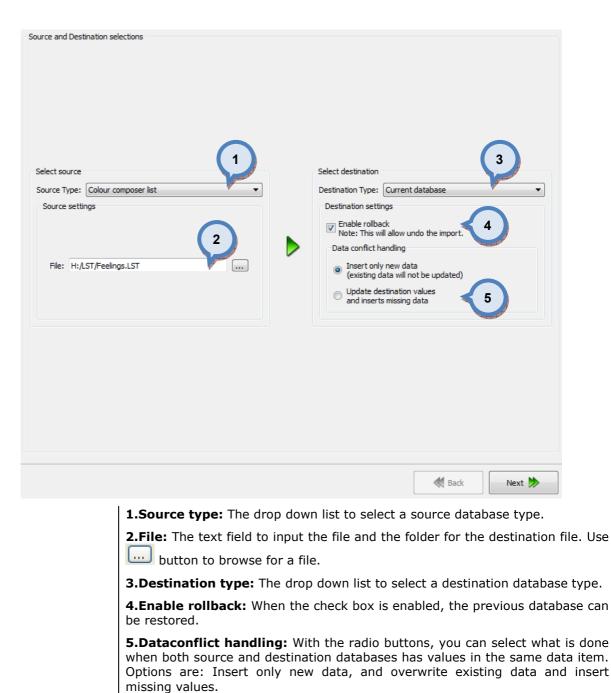




**2.Commit import:** The button to proceed to finalize the import. Note: after clicking the button, import operation cannot be undone.

#### **4.5.13 Export from Colour Composer list into the current database**

When **Colour Composer list** is selected as source type and **current database** is selected as destination type, the following options are available:



Next window in the export wizard is: Definable items.

in the <b>Definable items</b> page	you have the	following options:
------------------------------------	--------------	--------------------

r code prefix r card name umber of colors: 240				and the second second
umber of colors: 240				Update
r code	Item details:			
501	E Color data		4	
502 5			In the second se	
503	a* (D65)	-2.15	Ĩ.	
504	b* (D65)	3.55	×	
505	L* (D65)			
506		93.93		
507	Reflectance			
508	WAVELEN	GTH RINF	<u>*</u>	
509	400	43.55		
510	420	80.22	<b>T</b>	
511 512	Color code 450	1		
513	CONT COUC 450	1		
514				
515				
516				
517				
518	RGB			
519				
520				
521				
522				
523	<b>v</b>			

**1.Color code prefix:** The text field to add a **prefix** to an existing color code. Click Update button to view the result before proceeding.

**2.Color card name:** The text field to input the colors into a **new color card**. Type in the color card name and click Update button to view the result before proceeding.

**3.Update:** The button to preview the result of modifications in the sections 1 and 2.

**4.Item details:** The window to view details of the color when one is selected from the list (5).

**5.Color list:** The list of colors imported from the given file.

Next window in the export wizard is: Color card renaming.

In the Color card renaming page, yo	u have the following options:
-------------------------------------	-------------------------------

or card rename rules:		_	Update preview
Original Code	New Code	Original Code Changed Code	5
code rename rules: Original code	New code		
3	4		

 Back 🛛 Next 🏓

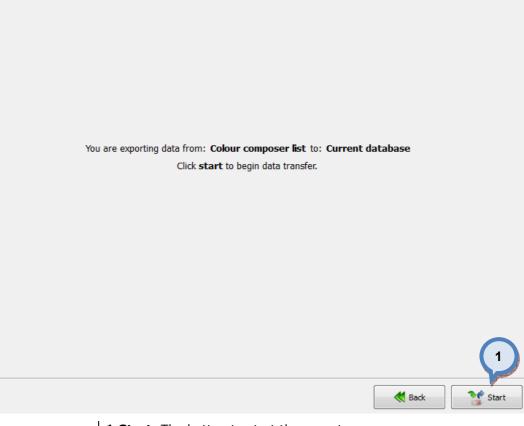
- 1.Original code: name of the color card
- 2.New code: new name of the color card
- 3. Original code: Prefix to be changed
- 4.New code: New prefix

**5.Update preview:** A button to update color card names and codes for the preview in a table below.

**6.Table:** Table to preview the changes made.

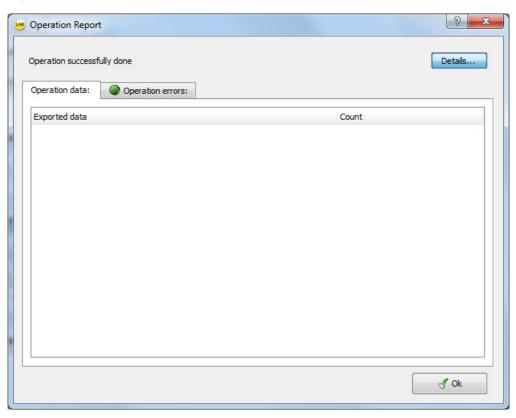
Next window in the export wizard is: Start export.

In the **Start export** page, you have the following options:



1.Start: The button to start the export process.

When the export process is finished, the export report window is opened up. In the Export report, you have two tab pages: one to display exported data, and one to display export error messages.





**2.Commit import:** The button to proceed to finalize the import. Note: after clicking the button, import operation cannot be undone.

## 4.6 Statistics

To view statistic, navigate into the **Management & Analysis** ⇒ **Statistics** page.

In statistics page you can:

- > View statistics of tinting history of local site or site groups filtered by:
  - Products
  - Colorants
  - > Colors
  - > Customers
  - > Orders
- Export search result

The **Statistics** page has 4 buttons to view data by Products, Colorants, Colors, Customers, or by Orders.

Products Colorants Colors Customers	Orders 1
Limits	
Group by: Site(s): Period:	11.1.2012 • = 10.1.2013 • Setrange •
Source: 2 Weekday: 4	6 Update
Update first 9 5	Last sold neurdetails     8       No preview       Order date:       Modification date:       Colour code:       Colour name:       Product name:
	Base code:
	Number of cans:
	Litres:
	Price:
	S Export

1. The button to select data type: products, colorants, colors, or customers

**Limits:** The selectors to set limiting criteria for the data:

**2.Group by:** The selector to group data by products (empty), site, site groups, or by weekdays.

**3.Site(s):** The drop down list to view data by all sites (empty), site groups, single site, or by local site.

**4.**The **button** to set site groups.

**5.Weekdays:** The drop down list to select by which weekday or whole week (empty) data is obtained.

**6.Period:** The selector to set start and end date range for the data to be obtained.

**7.Set range:** The drop down list for preset date ranges. Options are: previous week, previous month, previous year, from the beginning of this month, and from the beginning of this year.

**8.Update:** The button to refresh data table (3) based on the data type selection (1) and the limits (2) settings.

**9.Source:** The dropdown list to select by the data source type, all (empty), main (paint company data), local (custom data), or by external (order from external source).

When the **Products** button is selected on the **Statistics** page, and the **Update** button is clicked, the following options are available:

Limits						
Group by:	•	Site(s):		▼ Period:	11.1.2012 🔻 🖬	■ 10.1.2013 ▼ Set range
Source:	•	Weekday	/:	•		Update
roduct	Litres sold	Cans sold	Average price of item		Last sold item details	
Exterior 2401 AABC	843,52	908		0		
AA 🔺	281,02	409		0		
0,25 1	73,12	325		0		
11	51,30	57		0		
4 1	57,60	16	1	0		
10	99,00	11		0		
⊳ B	17,55	54		0		
⊳ C	544,95	445		0		
Exterior 2401 AAC	1160,78	1067		0		
In ior 2401 AABC	11118,83	11068		0		
Inten 101 AAC	1847,70	1789		0	Order date:	17.11.2012 18:37:59
					Modification date:	17.11.2012 18:37:59
	symb				Colour code:	NOVA V155
	vigate				Colour name:	
the pro	oduct tre	ie i			Product name:	Exterior 2401 AABC
		And and all all all all all all all all all al			Base code:	AA
					Can size code:	0,251
					Number of cans:	1
					Litres:	0,23
					cro con	0,23

**1.** The table to display obtained data. Use  $\blacktriangleright$  symbol to navigate to the lower level on the product tree.

**2.Last sold item details**: The table of details and visual color window of the last sold item.

**3.Export:** The button to export the obtained data into the text file.

When the **Colorants** button is selected on the **Statistics** page, and the **Update** button is clicked, the following options are available:

Limits									9
Group by	:	▼ Site(s):			·	Period:	11.1.2	2012 - 1	10.1.2013 ▼ St
Source:		<ul> <li>Weekday</li> </ul>	:	,	-	Product:			▼ Base: ▼
Zone for	colorant prices:		Defaul	t Zone	•	]		8	Update
Colorant	Used amount (I)	Used amount (ml) (last)	Cost	Cost (last)	3		Chart Volume	Details	Use percent
FT	23,31	13,79	415,89	245,92	and all all all				in one percent
KS	28,92	16,26	692,92	389,64		3		1 C 40/2	6
LS	24,83	15,89	617,27	395,10			4	5	
LT	2,57	1,21	51,45	24,23			Sound to be	7	
MM	5,77	4,97	299,64	258,14					
MS	11,99	3,65	282,08	85,90			LT	0,51%	
MT	6,79	5,70	97,16	81,57			MM	1,15%	
PT	3,11	2,47	174,61	138,87			MS	2,39%	
RS	21,42	12,18	576,33	327,79			мт	1,35%	2
RT	90,78	71,39	1134,77	892,44				<b>L</b> (	and a second second
ST	21,57	13,05	265,75	160,73			PT	0,62%	
TT	86,88	61,35	997,34	704,31			RS	4,26%	
US	16,34	10,20	741,	74			RT		18,07%
	17,29	13,29	250,	1 1					10,0770
XT	134,93	101,33	- Contraction of the local division of the l	8,36 E			ST	4,29%	
ZT	5,96	3,87	209,03	135,51			π		17,29%
							US	3,25%	
							vт	3,44%	
							хт		26,85%
							ZT	1,19%	7
SUM /	502,46	350,60	9076,	6200,24					
									S Export

1. The table to display obtained data.

2. The graph to display colorant usage (by volume or by cost)

**3.Zone for colorant prices:** The drop down list to select zone specific prices for the colorant prices.

**4.Volume:** When the radio button is selected, values in the graph are based on sold litres.

**5.Cost:** When the radio button is selected, values in the graph are based on cost of the sold litres.

**6.Use percentages:** When the check box is enabled, values in the graph are percentages, either by volume or cost, based on the selection on items 4 and 5.

7.Export: The button to export the obtained data into the text file.

**8.Product:** Drop down list to select product for evaluation.

**9.Base:** Dropdown list to select base for evaluation.

When the **Colorants** button is selected on the **Statistics** page, and **details** tab and one of the colorants selected, and the **Update** button is clicked, the following view is shown.

Group by:		▼ Site(s):		Period	d: 11.1.2012 ▼ ■ 10.1	.2013 Vet range
Source:		<ul> <li>Weekday:</li> </ul>		▼ Produ	ict:	▼ Base:
Zone for a	colorant prices:		Defaul	t Zone 🔻		Update
olorant	Used amount (I)	Used amount (ml) (last)	Cost	Cost (last)	Chart Details Fifty most recent dispense in the	selected period
FT	23,31	13,79	415,89	245,92	Dispense datetime	Amount
KS	28,92	16,26	692,92	389,64	20.11.2012 6:37:59	3.85
_	24,83	15,89	617,27	395,10	19.11.2012 19:49:59	2,31
	2,57	1,21		24,23	18.11.2012 3:01:59	
10000000000	5,77	4,97	299,64			8,62
_	11,99	3,65	282,08		17.11.2012 0:37:59	0,92
	6,79	5,70	97,16	81,57	16.11.2012 23:25:59	0,23
	3,11		174,61		16.11.2012 21:01:59	0,04
	21,42	12,18	576,33		15.11.2012 22:13:59	0,19
	90,78	71,39	1134,77		15.11.2012 15:01:59	0,77
	21,57	13,05	265,75	and the second se	15.11.2012 5:25:59	157,09
	86,88 16,34	61,35 10,20	997,34 741,55		14.11.2012 17:25:59	4,62
	17,29	13,29	258,94	the second s	13.11.2012 23:25:59	3,93
	134,93	101,33	· · ·	1698,36	13.11.2012 10:13:59	15,40
	5,96	3,87	209,03		12.11.2012 10:13:59	0,19
	-1-3	-,-,	200,00		10.11.2012 4:13:59	1,23
					9.11.2012 23:25:59	7,24
					9.11.2012 4:13:59	34,50
					9.11.2012 1:49:59	1,54
					7.11.2012 11:25:59	3,93
UM /	502.46	350.60	9076	6200,24	· · · · · · · · · · · · · · · · · · ·	+

Group by:	▼ Site(s):		Period: 11.1.	2012 - 10.1.201	3 ▼ Set range ▼
Source:	▼ Weekday:		Product:	•	Base:
Show details					Update
Color code 3	Uses	Litres sold	Consumed colorants (Litres)		
ASF 1010	8	8,78	0,66		
ASF 1012	7	4,95	0,10		
ASF 1013	1	0,23	0,00		
ASF 1014	1	1,57	0,01		
ASF 1020	7	9,90	0,52		
ASF 1021	12	14,18	1,09		
ASF 1022	6	6,75	0,11		
ASF 1023	4	66,60	0,73		
ASF 1024	4	4,28	0,03		
ASF 1030	2	1,35	0,08		
ASF 1031	1	0,23	0,01		
ASF 1033	10	17,55	0,09		
ASF 1034	4	5,17	0,01		
ASF 1040	1	0,90	0,04		
ASF 1041	5	1,35	0,09		
ASF 1042	5	4,05	0,04		
ASF 1043	1	0,23	0,00		
ASF 1044	1	1,35	0,00		
ASF 1050	10	8,32	0,47		
ASF 1051	4	11,47	0,56		
ASF 1053	1	0,23	0,00		
UM / TOTAL	6287		14970,83	502,46	2

1. The table to display obtained data.

**2.Export:** The button to export the obtained data into the text file.

**3.Show details:** The button to display details of the selected color.

When the **show details** button is clicked on the **Colors** sub page of the **Statistics** page, the following information is available:

Products	Colorants	Colors	Customers Ord	lers	
Limits					
Group 🤒 Form	nula details		3 ×	11.1.2012 - 10.1.2	013 🔻 Set range 💌
S Color of Product Base of AS Basean AS Formula AS Formula AS Colora	ode: ASF 1010 t: Exterior 240: ode: C nount: 900,00 r a comment: NC a: at 2	AABC 1	ABC,Exterior 2401 AABC    ABC,Exterior 2401 AABC		▼ Base: ▼ Update
ASI F	-1008001	22,1775 22,7935			
ASI V	Т	12,3208			
ASI X	Т	10,4727			
AS AS AS AS AS AS AS AS AS AS AS AS AS A	Add to database	0,23	Close 0,00		
SUM / TOTAL	6287		14970,83	502,46	
					Export

1.Color code: The field to display the selected color code.

**2.Formula:** The table to display the formula of the selected color.

**3:**When multiple formula versions are dispensed, use following options to select the needed formula version, product, and base code:

Formula version: The drop down list to select a formula version.

Product: The drop down list to select a product.

Basecode: The drop down list to select a base paint.

**4.Add to database:** The button to add selected formula into the database **as working version** or **as production version**.

When the **Customers** button is selected on the **Statistics** page, and the **Update** button is clicked, the following options are available:

Products	Colorants	olors	Customer	rs Orders			
Limits							
Group by:	▼ Site(s):		•	Period: 11.1.2	012 🔻 🖬	10.1.2013	▼ Set range
Source:	▼ Weekday:		Country:	ZIP code:			Update
Filter:			5	Marketing all	owed 2	🤜 Remo	ve customer
	1	1		3		and the second	4
Company / Customer	code	Country	/ Litres s			Average price of item	Orders
Aapo Aatos	8004	mk	180,90	153	0	1	60
Aappo Ainikki	8005	zh	169,65	187	0		75
Aarne Aatto	8006	hi	138,60	160	0		66
Aarni Aatto	8007	уо	179,32	152	0		56
Aaron Aila	8010	hi	9 204,30	161	0		69
Aarre Aarto	8011	el	180,08	212	0		79
> adanedhel			152,32	236	0		104
adurant			201,15	144	0		80
							•
Customer details							
Search:			Product:			•	Base:
Color code	Pr me		Base code	Can siz 7	Cans	Order date	5.50
NOVA Y139	Int 6 AABC		C	101	9	27.1.2012 11:2	5:59
NOVA Y098	Intenand AABC		С	0,251	3	28.1.2012 7:49	:59
NOVA Y097	Interior 2401 AABC		AA	0,251	1	22.4.2012 18:2	5:59
NOVA Y090	Interior 2401 AABC		с	11	2	16.5.2012 8:49	:59
NOVA Y090	Interior 2401 AABC		с	0,25 1	1	8.5.2012 18:25	:59
NOVA Y090	Interior 2401 AABC		С	0,251	1	10.7.2012 4:01	:59
NOVA YP	Interior 2401		С	0,25 1	1	6.6.2012 10:01	:59
	nterior 24 11		с	0,251	1	14.3.2012 3:01	:59
		FERT					

**1. Filter:** The text field to narrow down the search result by entering customer name or company or part of it.

**2.ZIP code:** The text field for the ZIP code.

**3.Marketing allowed:** When the check box is enabled, marketing is allowed. This setting can be set in the POS software by customers request.

**4.Remove customer:** When the button is clicked, the selected customer is deleted from the database.

5.Country: The text field for country code.

**6.Search:** The text field to search a customer by entering a customer name or the part of it.

**7.Product:** The drop down list to select a product.

8.Base: The drop down list to select a base paint.

9.Customer details: The table to display the customer list.

**10.Export contacts:** The button to export the details of the selected customer into the text file.

**11.Show details:** The button to show all contact details of the selected customer.

When the **Orders** button is selected on the **Statistics** page, and the **Update** button is clicked, the following options are available:

Products	Colorants	Colors	Customers	Orders		
Limits						
Source:	▼ Site(s):		▼ Period:	12.1.2012 - 11.1.2	013 🔻 Set range 🔻	Update
lter:	1		2	~		
SITENAME	CUSTOMERNAME	COMPANYNAME	TOROERDATE	MOT 3 VDAT NOTES	COLOURCODE	COLOUR
Local site	Aatu Aira	anfauglir	20.11.2012 6:37:59	20.11 ,87:59	ASF 1201	
ocal site	Aino Ahti	adanedhel	20.11.2012 5:25:59	20.11.2012 5:25:59	NOVA Y090	
.ocal site			20.11.2012 4:13:59	20.11.2012 4:13:59	NOVA Y090	
ocal site			20 11 2012 3:01:59	20.11.2012 3:01:59	NOVA Y090	
.ocal site			<b>3</b> 12 1:49:59	20.11.2012 1:49:59	NOVA L098	
ocal site	Aadolf Aamu	aerandir	20.11.2012 0:37:59	20.11.2012 0:37:59	NOVA Y090	
ocal site	Aatos Aimo	anfauglir	19.11.2012 23:2	19.11.2012 23:2	NOVA G018	
ocal site	Airi Aatu		19.11.2012 22:1	19.11.2012 22:1	NOVA K018	
ocal site			19.11.2012 21:0	19.11.2012 21:0	NOVA G021	
ocal site	Aarre Aarto		19.11.2012 19:4	19.11.2012 19:4	NOVA N090	
ocal site			19.11.2012 18:3	19.11.2012 18:3	NOVA F157	
.ocal site	Aapeli Aatami	aerin	19.11.2012 17:2	19.11.2012 17:2	NOVA Y090	
.ocal site			19.11.2012 16:1	19.11.2012 16:1	NOVA J050	
ocal site			19.11.2012 15:0	19.11.2012 15:0	NOVA V145	
.ocal site			19.11.2012 13:4	19.11.2012 13:4	NOVA M149	
(						•

**1.Source:** The dropdown list to select by the data source type, all (empty), main (paint company data), local (custom data), or by external (order from external source).

**2.Site(s):** The drop down list to view data by all sites (empty), site groups, single site, or by local site.

**3.Filter:** Text field to limit search results (press Update to activate). Filtering columns are bolded item below (4)

**4.Table:** To show order items. Table contains following column, which each can be sorted by clicking the header of the column.

- Site name
- Customer name
- Company name
- Orderdate
- Modification date
- Notes
- Color code
- Color name
- Original code
- RGB
- Product name
- Base code
- Base volume

- Gravimetric (true = T, False = F)
- Ncans (Number of cans)
- Discount
- Price
- Fcomment (formula comment)
- Formula

## 4.7 Site inventory

To manage you colorant and the base paint stock, navigate into the **Management & Analysis** ⇒ **Site inventory** page.

In this page you can view the stock levels by can sizes on the each of the each sites. This page has 2 tab pages: one for the **Colorants** and one for the **Base paints**.

In the **Colorant inventory** tab page of the **Site inventory** page, you have the following options available:

earch:			$\mathbf{n}$		2 Only sit	es where warnings
Colorant Inve	entory 🔵 Bas	e paint Inventory				
Site	Colorant	Cansize	Count	Warn level		
	3	• 11	3	5		
Site contact info					Ø Reset	Save

**1.Search:** The text field to input the search criteria.

**2.Only sites where warnings:** When the check box is enabled, only the sites having warnings are displayed on the list (3).

- **3.**The list of the sites, colorants, can sizes, counts, and warning levels.
- **4.Site contact info**: The button to view contact info of the site.

Site contact info

Search: Only sites where warnings 2 Base paint Inventory Colorant Inventory 1 Product Count Warn level Site Base Cansize 4 🔵 Local site Exterior 2401 AABC 4 AA 41 5 3 10 I 3 5 3 0,25 | 5 10 11 5 3 11 5 4 41 2 5 2 0 10 | 5 0,25 | 5 2 011 5 2 4

In the **Base paint inventory** tab page of the **Site inventory** page, you have the following options available:

**1.Search:** The text field to input the search criteria.

**2.Only sites where warnings:** When the check box is enabled, only the sites having warnings are displayed on the list (3).

Reset

💾 Save

**3.**The list of the sites, colorants, can sizes, counts, and warning levels.

4.Site contact info: The button to view contact info of the site.

# **5** Options

Options section has four sub pages, where you can:

- > Install the dispensing equipments
- > Install the printers
- > Install the spectrophotometers
- > Activate or return your software license

System Selection	
None	
Tatabase overview	
Configuration	
Matching & Characterization	
Management & Analysis	Options
Options	
Dispensers	
Application	
Spectros	
Activation	
Services & Replication	

#### 5.1 Dispensers

InnovaTint LAB uses f-link files to communicate with the dispensers, to set a default flink file location navigate into the **Options**  $\Rightarrow$  **Dispensers** page.

Here you can set a default file, as well as system specific files for each of the systems in the database.

On the **Dispensers** page, you have the following options available:

	Dispense	r Flink file loca	tions		
Default dispenser flink file location:	C:/wuser/CPSDriver/formul	la.dat			
System specific dispenser flink file locations:					
System				file location	
Monicolor 2401	_				
2			3		
				🕼 Reset	Save

1.Default dispenser flink file location: The text field for the file and folder

for the flink file. Use the 🛄 button to open the file browser to search a file.

System specific dispenser flink file locations:

2.System: The list of systems in the database.

**3.Flink file location**: The text field for the file and folder for the flink file for each of the systems (optional). Double click the field to open up the file browser to select a file.

#### 5.2 Printers

To install a printer, navigate into the **Options**  $\Rightarrow$  **Printers** page.

Default printer					
Default label software:		EasyPrint		1	•
Default label printer:		Send To OneNote 2010		2	•
Default number of copies:		1		3	×
Default label layout:		C2 TEST.ept	•	4	
Default folders / files					
Import folder:	C:\Users\TBackma	n		5	
Export folder:	C:\Users\TBackma	n			
Site export folder:	C:\Users\TBackma	n	7	6	
FLink-inbox file:	C:\Users\TBackma	n\formula.dat	8	Party P	
Export package default name:	COROB InnovaTin	t Data Setup	9		
				🔄 Reset	E Save

In the **Printers** page, you have the following options:

**1.Default label software:** The drop down list to select a default label printer software. The options are: AnyLabel and EasyPrint.

**2.Default label printer:** The drop down list to select a default label printer. The printers are installed though Windows Control Panel. Please refer to Windows manual for further instructions for printer installation.

**3.Default number of copies:** The drop down list to select a default number of copies printed.

**4.Default label layout**: The drop down list to select a default printing label layout. The printing labels are managed label software selected on the section (1). Please refer to label software manual for further instructions on how to create a label template.

**5.Import folder:** The folder to import the database. Use the **button** to search and select the folder.

**6.Export folder:** The folder to export the database. Use the **button** to search and select the folder.

**7.Site export folder:** The folder to export the local database. Use the unbutton to search and select the folder.

**8.Flink-inbox file:** The file and the folder for the Flink file. Use the **button** to search and select the folder.

**9.Export package default name:** Text field to change the default name used in Export functions. See management & Analysis – Export-Import section.

## 5.3 Spectros

To install spectrophotometer options, navigate into the **Options ⇒ Spectros** page.

ectrophotomet	er		
rrently installed devic	e / driver: Moyal Ltd SIM1000 - Datac	2	
nstall spectro			
pectro driver name:	Datacolor	▼	
	Configure		
Use button on dev	vice		
Gloss compensatio	on for 0/45° instruments		
nstalled Spectro feat	ures:		
Calibrate spectro			Check status
	Feature	Value	
Serial number of w	hite standard		
Serial number of in	strument	123123	
UV mode		UVEXC	
Triggers		Calibrate from software, Measurement from software	
Calibrate sequence		Black, White	
Calibration needed		True	
Specular mode		Ι	
		NORMAL	

**1.Currently installed device / driver:** The name of the currently installed spectrophotometer and the drive for one.

**2.Spectro driver name:** The drop down list to select a driver for a spectrophotometer. Options are:

- Datacolor
- X-rite

ectrophotomet	er			
rrently installed devic	e / driver: Moyal Ltd SIM1000 - Data	color		
nstall spectro		$\frown$		
Spectro driver name: Datacolor				
	Configure	a free state of the state of th		
Use button on dev				
	n for 0/45° instruments			
nstalled Spectro feat	ires:			
Calibrate spectro			Check status	
	Feature	Value		
Serial number of w	nite standard			
Serial number of in	strument	123123		
UV mode		UVEXC		
Triggers		Calibrate from software, Measurement from software		
Calibrate sequence		Black, White		
Calibration needed		True		
Specular mode		I		
Aperture		NORMAL		

## **1.Confiqure**: The button to configure an installed spectrophotometer.

When the **Configure** button is clicked in the **Spectros** page, you have the following options:

Measurement Main Window	
Measurement Main Window   Measurement conditions:   1   Specular:   INCL.   2   Aperture:   Normal   3   Flashes:   100   4   UV %:   0   6   Cut-off:   NONE   Image:   Image:	
Name:         Sampling colors         Close           SIM1000         COM1:19200,N,8,1         Mult.:=4         Tol.:=CieLab F=1.00,DE=1.0         Time left=0:00	

**1.Name:** The drop down list to select a spectrophotometer type.

When the **spectrophotometer type** is selected in the **Spectros** page, you have the following options:

Add Instrumen	t			
Manufacturer Model	Datacolor Currer 110: Datacolor			•
Communicati	on Parameter			
Port	COM1 🗨	Baud Rate	19200 💌	
Data Bits	8 Parity Bit	N	Stop Bit 2	
Serial No	2			
[	Add 3		Cancel	

**1.Manufacturer/Model:** The drop down lists to select a spectrophotometer type manufacturer and the Model.

**2.Serial no:** The text field to enter the serial number of the spectrophotometer.

**3.Add:** The button to proceed with the installation.

When the **spectrophotometer is installed,** in the **Spectros** page, you have the following options:

Install spectro Spectro driver name: Datacolor	<b></b>
	nfigure
Use button on device	
Gloss compensation for 0/45° instruments	$\frown$
Installed Spectro features:	(4)
Calibrate spectro	Chếck statu
Feature	Value
Serial number of white standard	
Serial number of instrument	123123
UV mode	UVEXC
Triggers	Calibrate from software, Measurement from software
Calibrate sequence	Black, White
Calibration needed	True
Specular mode	I
Aperture	NOMAL
	5

**1.Use button on device:** When the check box is enabled, the buttons in the spectrophotometer can be used. Othervise, the spectrophotometer is operated only by the software.

**2.Gloss compensation for 0/45 instruments:** When the check box is enabled, gloss compensation is used. This function will minimize the measurement differences between different equipments on the favour of the sphere measurement type.

**3.Calibrate spectro**: The button to calibrate an installed spectrophotometer.

**4.Check status:** The button to check the status of the installed spectrophotometer.

**5.**The list of the spectrophotometer features and values of those.

When **Spectro driver name "XRite"** is selected in the **Spectros** page, you have the following options:

Spectrophotometer	
Currently installed device / driver:	
Install spectro	
Spectro driver name: Xrite	
Device: RM400	▼ Port: ▼
5	This device has no settings
Use button on device	
Gloss compensation for 0/15° instruments	8
Installed Spectro feature	Check status
Feature	Value
9	

- 1.Device: Drop down list to select device
- 2.Port: Port where spectro is connected to.
- 3.Device settings: area to show possible device settings
- 4.Install: The button to set device into use with selected settings.

**5.Use button on device:** When the check box is enabled, the buttons in the spectrophotometer can be used. Othervise, the spectrophotometer is operated only by the software.

**6.Gloss compensation for 0/45 instruments:** When the check box is enabled, gloss compensation is used. This function will minimize the measurement differences between different equipments on the favour of the sphere measurement type.

7.Calibrate spectro: The button to calibrate an installed spectrophotometer.

**8.Check status:** The button to check the status of the installed spectrophotometer.

**9.**The list of the spectrophotometer features and values of those.

## 5.4 Activation

To activate or de-activate your software, navigate into the **Options** ⇒ **Activation** page.

On this section you can activate your software with internet service (this function requires internet access on the computer this software is installed on), or you can use manual activation, which can be handled other PC having internet access. Likewise, you can deactivate your software with internet service or manually.

In the **Online activation** tab page of the **Activation** window, you have the following options available:

1.Select Online activation tab page

2.Enter license code obtained during purchase of software

3. Click ACTIVATE NOW button

In the **Manual activation** tab page of the **Activation** window, you have the following options available:

Ir	nnovaTint - LAI	3 with Services	& replication activ	vated
Online activation	Manual activation	Online deactivation	Manual deactivation	
1. Navigate the We	eb site to activate the	icense:		
	ww	w.internetactiv	1 ation.com	
2. Provide the follo	owing information:			2
INSTALLATION ID:	1001030545479803	1000 2010 40 4 40 17 20 1		Copy to clipboard
3. Customer servic	e will provide you with	the code to unlock the	3	here:
4. Click the ACTIVA	ATE button below.		4	
		ACTIVATE		

**1.**The link to the activation web-page.

**2.Copy to clipboard:** The button to copy the installation ID to the clipboard, and to somewhere where it's easy to access on remote PC.

**3.**The text field to enter the activation code obtained from the web-page.

trusted activation™ » View your activations » de-activate license	PROBLEMS?
Welcome to the software activation center	
Please enter the Installation ID and the License Number the customer received with the product.	
INSTALLATION ID LICENSE NUMBER	
I have read and agreed to the terms and conditions	
Generate Unlock Code/Certificate	
Source value acceleration"	•

**4.ACTIVATE:** The button to activate the software when activation code is entered in to the field (3).

In the **Online deactivation** tab page of the **Activation** window, you have the following options available:

Online activation         Manual activation           Online deactivation         Manual deactivation
Lisence code:

1.Select Online deactivation tab page

2.Enter license code obtained during purchase of software

3.Click RETURN LICENSE button

In the **Online deactivation** tab page of the **Activation** window, you have the following options available:

Innova	aTint - LA	B with Services	& replication ac	tivated
Online activation Manu	al activation	Online deactivation	Manual deactivation	
License code:				
1.		Deactivate prog	am	2
2. Navigate the Web site to deactivate the licence: <u>www.internetactivation.com</u> 3. Provide the following information:				
3. Provide the following in	iormation:			
Deactivation Certificate:			4	

**1.License code:** The text field to display the license code.

2.Deactivate program: The button to deactivate the program.

**3.**The link to the de-activation web-page.

trusted activation™ » <u>View your activations</u> » <u>activate license</u>	PROBLEMS? If you need support please contact your software publisher direct.
Welcome to the	
software activation center	
Please enter your De-Activation Certificate.	
De-Activation Certificate	
.::	
I have read and agreed to the terms and conditions	
De-activate License	
	- • • =
© Copyright 2013 - Nalpeiron   terms and conditions	

**4.Deactivation Certificate:** The text field to display the deactivation certificate.

# 6 Services & Replication

Services & Replication section has four sub pages, where you can:

- Set network server settings
- > Manage users and their passwords and access rights
- > Make backups of your database
- Set replication settings

System Selection	
None	
R Database overview	
Configuration	
Matching & Characterization	
Management & Analysis	Services & Replication
Options	
Services & Replication	
Network server setup	
User management	
Backup	
Replication	

**Note:** When making changes to the settings in this section, user need to login in to the program as an administrator in order to set all options active. (right click the InnovaTint LAB icon and select "run as administrator").

### 6.1 Network server setup

In the **Create service** section of the **Network server setup** page, you have the following options available:

Create servi	ce:		
Clients on netv	vork server:	5-10-1	
	network server service called by ' efault set to automatically start w	"CPS InnovaTint Data - <b>{Server name}</b> " hen computer is restarted.	3
Server name:	InnovaTintData	Server log file:	
	Database file	2 Database name	create service
Services:	Add database	6 Petails:	7 ove Database
	🤣 Refresh		
Servio	e Running	Service name:	
		Server Log file:	
		Database file	Database name
		Use server () name () ip 169.254.8	19,199 in ODBC settings.
Christian Christian	emice		
Start s	ervice Stop service	Remove service	Create ODBC datasource setup files

1.Clients on network server: The number of clients on the network server.

**2.Server name:** The name of the network server.

**3.Server log file**: The file name and path of the server log file. Use the **button** to select the log file.

- 4.Create service: The button to create a service.
- 5. The list of the database files and the corresponding database base names.
- 6.Add database: The button to add a new database
- 7.Remove database: The button to remove a selected database.

In the **Service** section of the **Network server setup** page, you have the following options available:

Treate servi	ice:							
Clients on net	work server:		5					
This will create Service is by d	e network serve lefault set to au	r service called by "CF tomatically start when	PS InnovaTint Data - <b>{Se</b> n computer is restarted.	rver nam	e}"			
Server name:	InnovaTintDat	ta	Server log file:					
	Databas	e file		Databa	ase name			
							<b>*</b>	Create service
		Add database			🤜 Remove Data	base	]	
Services:	🙆 Refre	sh	1 					
Servi	•	Running	Service name:					
	2		Server name: Server Log file:					
	2	and a second sec	Datab	ase file		Dat	tabase nam	e
	3	4	Use servel 5	ja 🔊	169.254.89 . 199			in ODBC settings.
	All and a second second	Street and a start			103.23-109.199	-		-
Start :	service	Stop service	🤜 Remové service			🊴 Create OI	DBC datasou	rce setup files

- **1.Refresh:** The button to refresh the list of the services on the field (2).
- **2.**The list of the Services and the indicator whether service is running or not.
- **3.Start service**: The button to start a selected service.
- **4.Stop service:** The button to stop a selected service.
- 5.Remove service: The button to remove a selected service.

In the **Details** section of the **Network server setup** page, you have the following options available, when a service is selected from the Services list:

5
- {Server name}" rted.
g file:
Database name
Create service
2 3
Database file Database name
A name () ip 169.254.89.199 rvice Create ODBC datasource setup files
ta lo : :

**1.Service name:** The name of the selected service.

**2.Server name:** The name of the server of the selected service.

**3.Server log file:** The name of the log file of the selected service.

**4.**The list of the database files and corresponding database names.

**5.Create ODBC datasource setup files:** The button to create ODBC data source setup files for the client in the network.

### 6.2 User management

To manage user settings, navigate into the **Options ⇒ User management** page.

Users:		Main database	groups:
DBA		Group name	In group
по		Readers	
		Writers	
		Administra	
			4
		Local database	groups:
		Group name	In group
		Readers	
		Writers	
		Administra	▼ 5
2 Add	6 3 & Remove	Change pass New passwor Re-type new	rd
	<b>1.Users:</b> The list of users already in the sy	/stem.	
	2.Add: The button to create a new user.		
	3.Remove: The button to remove a select	ed user.	
	<b>4.Main database groups:</b> The list of th available are: Readers (view formulas), administrator (edit products, and systems)	writers (	
	<b>5.Local database groups:</b> The list of the available are: Readers, Writers, and Admin		s in local database. Groups

In the **User management** page, you have the following options available:

**6.Change password:** The text fields to type in the new password. New password has to be re-typed in to Re-type new password field. Password is case sensitive.

**7.Change password:** The button to change password after it has been typed into the field (6).

## 6.3 Backup

To make database backups, navigate into the **Options ⇒ Backup** page.

In backup page you can:

- > Make backup in database you are working with
- > Restore previously made database
- view backup logs

There are three tab pages on this section; **Backup, Recover** and **Backup/Restore log**.

In the **Backup** tab page of the **Backup** window, you have the following options available:

Backup	Recov	er Badkup / Restore log
Backup dire	ectory:	Use time machine (Creates a backup hourly for 24 hours and then starts writing over the created backups)
Backup inte	erval:	<ul> <li>Hourly starting at 00:00 ↓</li> <li>Daily at 15:00 ↓</li> <li>Weekly on Monday ▼ at 15:00 ↓</li> <li>First of every month at 15:00 ↓</li> </ul>
Backup s	tate:	No backup
Last run	time:	5
Next run	time:	
		6
		Full Backup Now
		7
		Enable / Disable backup
		Validate Database
		Apply Settings

**1.Backup directory:** The folder for the backup file. Use button to search the folder.

**2.Use time machine:** The button to set up a automated backup file handling. This function stores latest 24 database backup files in network server and, therefore, save disk space.

3.Backup interval: The settings for the backup timing.

**Hourly starting at:** Set time to the selector field on when the first backup is made. Next back up is made in every hour until 24:00.

**Daily at:** Set time to the selector field on when backup is made on every day.

**Weekly on:** Set weekday and time to the selector fields on when the back up is made every week.

**First of every month at:** Set time to the selector field on which time back up is made on the first day of every month.

4.Refresh: The button to refresh items (5) and (6).

5.Last run time: The field to display the latest backup run.

6.Next run time: The field to display the next scheduled backup run.

7.Full backup Now: The button to run full backup immediately.

8.Validate database: The button to execute the database validation.

9.Apply Settings: The button to save backup timing settings.

In the **Recover** tab page of the **Backup** window, you have the following options available:

Backup Recover		2
Backup directory:	C:\wuser\Backup\	Analyze folder
🕞 kesäkuų 2012 😜	12.6.2012 12:55:00	1 Username: dba
ma ti ke to pe <mark>la su</mark> 22 28 <mark>29 30 31 1</mark> 2 3		Password: ••• 3
23         4         5         6         7         8         9         10           24         11         12         13         14         15         7	5	Analyze selected backup
25 18 19 20 21 22 <b>4</b>		6
26 25 26 27 28 29 <b>3</b> 1		Recover database
<b>27</b> 2 3 4 5 6 7 8		Selected 8
Item	Count	Sciected
Can size	24	
Characterization sets	2	
INNOVATINT Test		
lest ▷ Color Cards	9	
Color Cards     Colorants	61	
<ul> <li>Colorants</li> <li>Colors not in any card</li> </ul>	6208	
<ul> <li>Formulas</li> </ul>	42579	
Matching settings	0	
Price information	3	
Product rules	4	
Products	58	
Substrates	4	
System rules	1	
Systems	4	
▷ Units	17	
Zones	3	9
		Recover selected items

**1. Backup directory:** The folder for the backup file. Use button to search the folder.

**2.Analyse folder:** The button to search selected folder to find a backup file. The dates on which the backup file is found are shown at the calendar (6) with green background.

**3.Username/Password:** The fields to input a username and password for the backup database.

**4.Calendar:** The calendar to show dates (with the green background) on whch the backup file is available.

**5.**The table to display the backup file(s) and times of the selected date (the date selected from the calendar (4)).

**6.Analyse selected backup:** The button to analyse selected backup file. Items will be displayed in the table (7).

7.Item/Count: The table to display the content of the backup file(s) (6).

**8.Recover database:** The button to replace current database with the selected backup database. **note:** only the "green"-flagged backups do not interfere replication.

**9.Recover selected items:** The button to replace selected items from the current batabase.

## In the **Recover** tab page of the **Backup** window, you have the following options available:

Backup Recover	Backup / Restore lo	g				
Operation	Version D	atabase name	Database type	Datetime	Creator	Backup type
operation						bookup type
•						Þ

## **1. table** to display content of the log files.

## 6.4 Replication

To setup database replication, navigate into the **Options**  $\Rightarrow$  **Replication** page.

On this page, you have three tab pages:

- Consolidate settings
- > Site management
- Replication log

In Consolidate settings tab page you can:

- Set server settings
- > Set replication frequencies
- Execute replication immediately

In the **FTP** section of the **Consolidation settings** tab page of the **Replication** page, you have the following options available:

onsolidate settings	Site management	Replication logs			
FTP					
Host:	local	nost	$\mathbf{n}$		
User:	inno		2		
Password:	•••	•	Contraction of the second s	3	
Root directory:					
Port:	21		21)	4	Check FTP connection
		se passive mode conn	etions to P		6
Replication schedule					
	Hourly starting at		14:00		
	Daily at		14:00		
Replication interval:	-		t 14:00 🚔		
	First of every mon		14:00		
	Re-replication interval		180 min		
Last run time:					
Next run time:					

1.Host: The field to input the host name.

2.User: The field to input the user name.

**3.Password:** The field to input the user password.

4.Root directory: The field to input the root directory.

**5.Port:** The field to input the port (default port is 21)

**6.Check FTP connection:** The button to check the FTP connection. Setting on the points 1-5 has to be made before checking the connection.

In the **Replication schedule** section of the **Consolidate settings** tab page of the **Replication** page, you have the following options available:

Consolidate settings	Site management	Replication logs		
FTP				
Host:	local	nost		
User:	inno			
Password:	•••	•		
Root directory:				
Port:	21		(Default 21)	Check FTP connection
Replication schedule		se passive mode conne	tions to FTP-server	
	O Hourly starting at		14:00	
	Daily at		14:00	
Replication interval:	<ul> <li>Weekly on</li> <li>First of every more</li> </ul>		14:00 T	
	Re-replication interval	c.	180 min	
Last run time:				2
Next run time:			5	6
Replicate nov	4		Remove replication	3 Apply settings

**1.Replication interval:** The time settings for replication.

**Hourly starting at:** Set time to the selector field on when replication is made on every hour.

**Daily at:** Set time to the selector field on when replication is made on every day.

**Weekly on:** Set weekday and time to the selector fields on when the replication is made every week.

**First of every month at:** Set time to the selector field on which time replicationis made on the first day of every month.

**Re-replication interval:** Set time to selector after how many minutes after replication the re-replication is made.

2.Last run time: The field to display the latest replication run.

**3.Next run time:** The field to display the next scheduled replication run.

4.Replicate now: The button to run replication immediately.

5.Remove replication: The button to remove the replication.

**6.Apply settings:** The button to save replication settings.

In Site management tab page you can:

- > Create new sites, and replication groups
- Synchronize site databases
- > Remove sites

Site nameUser / FolderandLaedPending messagesCMy Site (Main)(LAB)FTPsite120.12.2012 21:48:27NJottain (Main)Default ZoneFTPsite20My Site (Local)My GroupFTPsite111.1.2013 11:10:02-NJottain (Local)My GroupFTPsite311.1.2013 11:10:02-8My ST (Local)(LAB)FTPsite411.1.2013 11:10:02-8sed (Local)My GroupFTPsite411.1.2013 11:10:02-8	🔆 Create	e site	🖋 Edit site	Re-e	xport site s	Synchronize selected database	Remove site	
Site name       Uper / Zone       Uper / Folder       End       La       Pending messages       C         My Site (Main)       (LAB)       FTP       site1       20.12.2012 21:48:27       -       -       M         Jottain (Main)       Default Zone       FTP       site2       -       -       -       0         My Site (Local)       My Group       FTP       site1       11.1.2013 11:10:02       -        N       N         Jottain (Local)       My Group       FTP       site2       11.1.2013 11:10:02       -        N       N         My ST (Local)       (LAB)       FTP       site3       11.1.2013 11:10:02       -       8        A       A         sd (Local)       My Group       FTP       site4       11.1.2013 11:10:02       -       8        A       A	ilter by site n					$\overline{\mathbf{n}}$	🔷 🔗 Refre	sh
Jottain (Main)       Default Zone       FTP       site2       -       -       -       o       o         My Site (Local)       My Group       FTP       site1       11.1.2013 11:10:02       -       Image: Control of the site in the s			2	User / Folder	3 rend		Pending messages	c
My Site (Local)         My Group         FTP         site1         11.1.2013 11:10:02         -         M         M           Mottain (Local)         My Group         FTP         site2         11.1.2013 11:10:02         -         6         M           My ST (Local)         (LAB)         FTP         site3         11.1.2013 11:10:02         -         6         6           sd (Local)         My Group         FTP         site4         11.1.2013 11:10:02         -         6         6	My Site (Main)	(LAB)	FTP	site1	20.12.2012 21:48:27	-		Μ
Jottain (Local)         My Group         FTP         site2         11.1.2013 11:10:02         -         8         0           My ST (Local)         (LAB)         FTP         site3         11.1.2013 11:10:02         -         8         -         8         -         6         -         6         -<	Jottain (Main)	Default Zone	FTP	site2	-	-		o
My ST (Local)         (LAB)         FTP         site3         11.1.2013 11:10:02         -         8           sd (Local)         My Group         FTP         site4         11.1.2013 11:10:02         -         -         8         -	My Site (Local)	My Group	FTP	site1	11.1.2013 11:10:02	-		Μ
sd (Local) My Group FTP site4 11.1.2013 11:10:02 -	Jottain (Local)	My Group	FTP	site2	11.1.2013 11:10:02	-		o
	My ST (Local)	(LAB)	FTP	site3	11.1.2013 11:10:02	- 8		
TEst (Local)         My Group         FTP         site5         11.1.2013 11:10:02         - <td>sd (Local)</td> <td>My Group</td> <td>FTP</td> <td>site4</td> <td>11.1.2013 11:10:02</td> <td>-</td> <td></td> <td></td>	sd (Local)	My Group	FTP	site4	11.1.2013 11:10:02	-		
	TEst (Local)	My Group	FTP	site5	11.1.2013 11:10:02	-		

In the **Site management** tab page of the **Replication** page, you have the following options available:

**1.Create site:** The button to create a site.

**2.Edit site:** The button to enable site information editing function.

**3.Re-export site:** The button to re-export database information into the selected site.

**4.Synchronize selected database:** The button to compare existing database at the site and the database in the server and to fix the site database if any differences between those two. Server database information will over-rule the site database.

**5.Remove site:** The button to delete a site from the replication list.

6.Refresh: The button to refresh the table (8)

**7.Filter:** Text field to search by site name.

8. Table for all of the sites with replication information.

When the **Create site** -button has been clicked, a window is opened and following options available:

Create multiple sites				replication for main of replication for local d		
Site name	Company name	Phone	Email	Address	Address 2nd line	Zip coo
My Test	TEST COMP	111111	test@test.com	Street has no n		12312
					4	
Add   Custom replicat	III Remove tion schedule for site	3			4 Add replic	ation grou
- Add	Remove	3		15	Add replic	ation gro
Add	Remove	3				ation gro
Add Custom replicat Hourly starting	Remove	3	▼ at	15	:00	ation gro
Add Custom replicat Hourly starting Daily at	Remove tion schedule for site tat 5 Monday	3	▼ at	15	:00	ation gro

**1.Add:** The button to create new site(s).

**2.Table** to be filled with the new site information. Table consist following fields:

- Site name
- Company name
- Phone number
- E-mail
- Address
- Address line 2
- Zip code
- Country (2 characters)
- Site type: Dropdown list, options are SHOP and LAB
- Replication group: Dropdown list of available replication groups.
- Zone: Dropdown list of available zones.

- One way for main: checkbox to define type of data sharing for main database. Enabled = from consolidate to site.

- One way for local: checkbox to define type of data sharing for local database. Enabled = from site to consolidate.

**3.Remove:** The button to remove a new site from the table (2)

**4.Add replication group:** The button to add new replication group (to be selected in the table (2)

**5.Custom replication schedule for site:** If checkbox is enabled it is possible to set custom replication schedule that differs from regular replication schedule set on consolidate settings.

Click on the OK-button will start creation of site installation package(s)

(	Mew site export	
	Site data export in progress	
	20%	
	New site created	
	Remote user for site created	
	Subscriptions for site created	
	Starting extraction of local database	
	C:\Program Files\SQL Anywhere 11\bin32\dbxtract -c "UID=dba;PWD=sql;DSN=s6local" -an "C:\quicktestdelete\1\s6local" -ap 4096 -ea None -ii -l 3 site1	
	Ok	

When the **Edit site** –button has been clicked, and a site has been selected, a window is opened and following options available:

🥶 Edit site	Acres /mm		? ×
Site name:	My Site		
Company name:	MyComp		
Phone number:	21 1		
Email:			
Address:			
Address 2nd line:			
Zip code:	Cour	intry:	
	Replication for LAB     Replication	tion for shop	
Replication Group:	My Group	💌 🚽 Add replicat	ion group
Site zone:	Default Zone	▼	
Limit replication:	One way replication for local database. (From site		
	One way replication for main database. (From co Custom replication schedule for site	onsolidate to site)	
	<ul> <li>Hourly starting at</li> </ul>	15:00	
	O Daily at	15:00	
		15:00	
	<ul> <li>First of every month at</li> </ul>	15:00	
	Re-replication interval:	180 min 🔔	
		🕑 Ok 🖉 🧶	Cancel

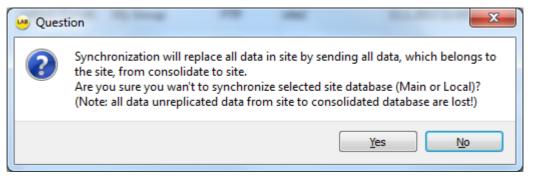
**1.**Possible to edit selected Site contact details.

When the **Re-export site** –button has been clicked, and a site have been selected, a window is opened and following options available:

😬 Re-export site			? ×
Site name:	My Site		
Company name:	MyComp		
Phone number:	21		
Email:			
Address:			
Address 2nd line:			
Zip code:	Country:		
	Replication for LAB     Replication for	r shop	
Replication Group:	My Group		Station group
Site zone:	Default Zone	▼]	
Limit replication:	One way replication for local database. (From site to c	onsolidate)	
	One way replication for main database. (From consolid	ate to site)	
	Custom replication schedule for site Hourly starting at	15:00	
	<ul> <li>Daily at</li> </ul>	15:00	
	O Weekly on Monday ▼ at	15:00	
	First of every month at	15:00	
	Re-replication interval:	180 min 🗘	
		J Ok	Cancel

**1.**All items show on screen are editable.

When the Synchronize selected database -button has been clicked, a window is opened:



# In Replication logs tab page you can:

> View replication evens

In the **Replication log** tab page of the **Replication** page, you have the following options available:



**1.Main replication:** When the radio button is enabled, only main replication information is visible.

**2.Local replication:** When the radio button is enabled, only local replication information is visible.

**3.Show only errors:** When the check box is enabled, only errors are shown on the table (6).

**4.Refresh:** The button to update the table (6).

**5.Clear log:** The button to clear the table (6).

6. Table to show replication information.

# 7 Appendix 1: EasyPrint Manual



# EasyPrint

(version 0.2.4)

# **User Manual**

From:

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(Reference software version EasyPrint 0.2.4)

# Introduction

EasyPrint software add-on replaces previous Anylabel labelling software. It is used to make and edit new labels within InnovaTint software family. Main functionalities of the software are;

- Label creation and design (any size)
- Label edits
- > Retrieve order information from the database
- Place picture(s) to the label
- > Create barcodes, including 2D and QR codes, and define their content

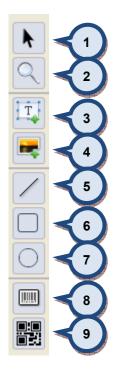
# Navigation in the software

Navigation in the software is divided to three areas; main header for content design and appearance.



- 1. Label options; Create, Edit, Save and Preview
- 2. Font options; font type, size, bold, italic and underlined
- 3. Font characteristics; font color and -background color
- 4. Text alignment; left, middle and right
- 5. Text alignment; top, centre and bottom
- 6. Add line; top, bottom, left and right
- 7. Add line; surround component and clear component line properties
- 8. Set component order; move front and back

Left side to select item type, see Available item types for more details.

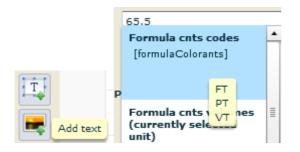


- 1. Select item
- **2.** Zoom
- 3. Add Text-component
- 4. Add picture
- 5. Add line
- 6. Add rectangle
- 7. Add circle / eclipse
- 8. Add barcode
- 9. Add 2D barcode

And right side to define content to the item and its details.



Icons on the screen come with "tool tips" that is shown, if mouse pointer kept over the icon. The same is true also for Text system variables to display example cases of their use, **see custom text / system variable**.



# **Getting started**

# New label

Page settings × Select page size: **A**4 • Page width [mm]: 210 Page height [mm]: 297 Select page orientation: Portrait Landscape Page margins: Top padding [mm]: 10 Bottom padding [mm]: 10 Left padding [mm]: 10 Right padding [mm]: 10 ок Cancel

or alternatively by clicking i -icon on the header row or select **new** from the dropdown menu.

<b>-</b>	
New	
Open	
Save	
Save as	

377

A new label can be created at the program start up

Possible settings for the label are:

Page settings	<b></b>
Select page size:	
A4	
Page width [mm]:	210
Page height [mm]:	297
Select page orientat	tion:
• Portrait	
🔘 Landscape	
Page margins:	
Top padding [mm]:	10
Bottom padding [mm]:	10
Left padding [mm]:	10
Right padding [mm]:	10
4 ок са	ancel 5

- 1. Label size selection. EasyPrint has multiple preconfigured label sizes to choose from. It is also possible to create custom size. Width and height must be given.
- 2. Set the label orientation
- 3. Set margins
- 4. OK to approve new label format
- 5. Cancel to open EasyPrint software without preset label canvas

When a new label is created possible content items can be moved into the canvas and label can be designed into its final format. See more information on the **available item types -section**.

Label size and margin can always be adjusted on the right side panel under the **page settings**.

Page settings
<ul> <li>Page settings</li> </ul>
Page size:
Custom
Page oritentation:
O Portrait
• Landscape
Page width [mm]:
90
Page height [mm]:
29
Padding top [mm]:
2
Padding bottom [mm]:
2
Padding left [mm]:
2
Padding right [mm]:
2

# Edit label

٦	To edit a label click o	-icon or alternatively select <b>Open</b> from the dropdown menu.
	*	
	New	
	Open	
	Save	
	Save as	

Look i	n: 🚺 templates		- 🗧 🖆 📰 -	
Per	Name	*	Date modified	Туре
I Places	📕 S6man		19.8.2012 20:01	File folde
Flaces	📥 Large100_54.ept	t	23.11.2012 8:04	MyFile
	📥 Large100_54v2.0	ept	23.11.2012 12:24	MyFile
ktop	📥 Medium100_54	.ept	23.11.2012 7:55	MyFile
	📥 S6aut.ept		22.11.2012 10:14	MyFile
	📥 S6man.ept	📥 S6man.ept		MyFile
ries	📥 Sõtemplate-YC.	ept	9.11.2012 2:59	MyFile
7	📥 Small63_48.ept		5.12.2012 10:31	MyFile
5	📥 Small90_29.ept		26.11.2012 6:44	MyFile
ter				
ork				
	•	III		Þ
	File name:		•	Open
	Files of type:	asyPrint Templates		Cancel

A window will be displayed where to choose from available templates

\*.ept files (EasyPrint templates) are by default saved under c:\wuser\easyprint\templates.

Select template and click open. Template will be opened for EasyPrint to be edited.

#### Save label

New or edited labels can be saved by clicking Hard-icon or alternatively select **Save or Save as** from the dropdown menu.

<b>*</b>	
New	
Open	
Save	
Save as	

**Save** will overwrite previous version (if editing) and **Save as** allows to rename edited version. In both cases default location for the label is c:\wuser\easyprint\templates.

#### **Preview label**

To preview label click on siternatively select **Show preview** from the dropdown menu.

÷.	
New	
Open	
Save	
Save as	
	_
Show preview	

A new window will be opened where data content fields are populated as they would be in real print (demonstrational data used).

#### data design view:

Color: [colourCode]	Formula formul
Product[productName]	[formu [formulaDef
Base: [baseCode]	laColo aultVolumes
Can size{canName]	rants] ]
[currentDate]	
[currentTime]	

preview mode:

Color: NOVA V145 Product: Exterior 2401 AABC Base: AA Can size: 41	Formula US1/- FT 0 Y 16,00 PT 0 Y 10,00 VT 0 Y 4,00	/48
19.11.2012 22:36		

# Preview window has following options

Print preview	Reference to the second	🐔 🖬
	2	
Color: NOVA V145 Product: Exterior 2401 A Base: AA Can size: 4 I I9.11.2012 22:36	F	Formula         US1/48Y           T         0 Y 16,00 /48           PT         0 Y 10,00 /48           /T         0 Y 4,00 /48
	OK	
	3	

- 1. Print the preview
- 2. Zoom the object
- 3. Close the preview window

# Available item types

#### Select tool

Select tool, . is used to select an item from the label in order to modify its content or to change location in the canvas. Item detail dropbox (1) or Tab-button can also be used to navigate through the items.

Depending on the selection of the item, different type of information is shown on the right side on the **Item details** section.

m detail	
no2 🗸 🔻	1
no2 t size	
leight [mm]:	
sition	
ert [mm]: 12	
op [mm]:	
19	
nt settings	
nt formatting	
nt alignment	
	mo2 TO2 t size Vidth [mm]: 55.5 leight [mm]: 5 sition eft [mm]: 2 op [mm]: 9 nt settings nt formatting

- 2. Set size defines the size of the component
- 3. Position the location of the item in the label (top left corner)

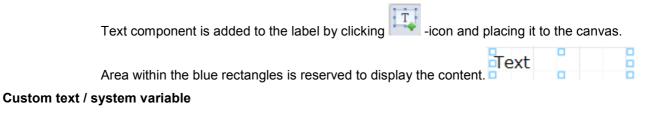
both of these are always present to each item types

All item, when selected, can be moved around the canvas with mouse by clicking it and dragging it to its new location. Likewise it's possible to reset their size by extending/shrinking the area of the component. Any change made are effected to above size and position values.

#### Zoom

Zoom tool, Kis used to zoom in and out. Mouse left click zooms in and right click out.

#### Add text



Text can be "custom text" or a system variable – component to collect data from the database.

Use radio -button to select the type of content.

- Text Use system variable Select variable group	-	2
Order info	*	
Select variable		
Base code	*	
<ul> <li>Use custom text</li> <li>Type in custom value:</li> </ul>	-	
Color:		

- 1. To create static text to the label select custom text. Type in custom value.
- 2. To collect data from the database select system variable.

System variables are grouped into logical sets that present the area of need to easier find needed data variable. Possible options for group are:

- Date and times
- Extra info
- > Formula
- InnovaTint Lab
- Order info
- Prices (default currency)
- Prices (selected currency)
- > Site info

#### Date and times

Variable from Data and times displays Date and/or time in its short format as set in Windows regional settings. Possible options are;

- Current date [currentDate] "19.12.2012"
- Current date + time [currentDateTime] "19.12.2012 12:12"
- Current time [currentTime] "12:12"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

#### Extra info

Variable from Extra info displays additional information related to the order. Price group info can only be shown, if in InnovaTint Lab mentioned function has been set to use. Possible options are;

- Price group [ElPriceGroup] "2"
- Total mass [EITotalMass] "1234,34 g"
- Total volume [EITotalVolume] "1000,23 ml"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

#### Formula

Variable for the Formula displayes information related to the formula used in the order. Possible options are:

- Formula cnts codes [formulacolorants] "RT, TT, VT" -where each colorant is on it's own row
- Formula cnts volumes (currently selected unit) [FormulaSelectedVolumes] "12/96, 41/96, 15/96" –where each amount is on it's own row. /96 in this example presents temporarily selected unit in use.
- Formula cnts volumes (default unit) [FormulaDefaultVolumes] "12/96, 41/96, 15/96" –where each amount is on it's own row. /96 is the default unit set in InnovaTint POS version.
- Formula cnts volumes (ml) [FormulaMIVolumes] "0,12, 0,13, 0,14" -where each amount is in ml's and on it's own rowFormula note [FormulaNote] "low hiding"
- Formula volumes unit (currently selected) [formulaSelectedUnit] "/96"
- Formula volumes unit (default) [formulaDefaultUnit] "/192"
- Formula volumes unit (ml) [formulaMlUnit] "ml"
- Formula weighting (volumes from db) [formulaCCsFromDb] "1, 2, 3" -where each amount is on it's own row
- Formula weighting (volumes from scale) [formulaCCsFromScale] "1, 2, 3" -where each amount is on it's own row
- Formula weighting (weights from db) [formulaWeightsFromDb] "1, 2, 3" -where each amount is on it's own row

Formula weighting (weights from scale) [formulaWeightsFromScale] "1, 2, 3" -where each amount is on it's own row

#### InnovaTint Lab

InnovaTint Lab variables are designed to support InnovaTint Lab matching and charaterization features. Possible options are:

- Characterization set component [charsetCMP]
- Characterization set components [charsetSampleComponents]
- <u>Characterization set formula volumes (proposed amount of component)</u> [charsetCMPpro]
- Characterization set formula volumes (true specific gravity for sample) [charsetCMPsg]
- Characterization set name [chasetName]
- > Characterization set sample name [charsetSampleName]
- > Characterization set volumes (actual amount of component) [charsetCMPam]
- Color HTML [colorHTML]
- Color LAB [colorLAB]
- Color XYZ [colorXYZ]
- Sample made by [madeBy]
- Sample thickness [thickness]
- VOC components [formulaVOCcontent]
- VOC total [formulaVOC]

#### Order info

Order info variables are related items in the order and customer. Possible options are:

- Base code [baseCode] "White"
- > Can actual / total [canIDLot] "2/4"
- Can actual number [canID] "3"
- Can name [canName] "4 litre"
- > Cans total number [canTotal] "10"
- Colour code [colourCode] "Spirit 1-2-3"
- > Colour name [colourName] "Blue velvet"
- > Customer name [customerName] "John Doe"
- Date of Order [modificationDate] "18.12.2012 14:20"
- > Date of order creation [creationDate] "17.12.2012 12:12"
- Order ID [orderID] "100202"
- > <u>Product name</u> [productName] "Exterior Latex"
- User notes [UserNote] "Living room ceiling"

#### Prices (default currency)

Default currency prices variables uses currency and values set for the zone in use. See LAB manual for the calculation models. Possible options are:

- Base cost (default) [EIPDBaseCost] "20 €"
- > <u>Base margin (default)</u> [EIPDBaseMargin] "5 €"
- > Base price (default) [EIPDBasePrice] "25 €"
- Colorant cost (default) [EIPDCntCost] "1 €"
- > <u>Colorant margin (default)</u> [EIPDCntMargin] "0,1 €"
- > Colorant price (default) [EIPDCntPrice] "1,1 €"
- Cost (default) [EIPDCost] "21 €"
- Discount (default) [EIPDDiscount] "0"
- List price (default) [EIPDListPrice] "26,1 €"
- Margin (default) [EIPDMargin] "5,1 €"
- > Maximum retail price (default) [EIPDMaxPrice]
- Price (default) [EIPDPrice] "26,1 €"
- Price per kg (default) [EIPDPricePerKilogram] "26,1 €"
- Price per litre (defaul) [EIPDPricePerLitre] "28,0 €"
- ► <u>Tax (default)</u> [EIPDTax] "2 €"
- ➤ <u>Tint fee (default)</u> [EIPDTintFee] "0,3 €"
- Tint price (default) [EIPDTintPrice] "1,4 €"

#### Prices (selected currency)

Selected currency prices variables uses alternative currency and its conversion rate as set in POS. Shown values are conversions and may cause inaccuracies. Possible options are:

- Base cost (selected) [EIPSBaseCost] "20 €"
- > Base margin (selected) [EIPSBaseMargin] "5 €"
- > Base price (selected) [EIPSBasePrice] "25 €"
- Colorant cost (selected) [EIPSCntCost] "1 €"
- > Colorant margin (selected) [EIPSCntMargin] "0,1 €"
- > Colorant price (selected) [EIPSCntPrice] "1,1 €"
- Cost (selected) [EIPSCost] "21 €"
- Discount (selected) [EIPSDiscount] "0"
- List price (selected) [EIPSListPrice] "26,1 €"
- Margin (selected) [EIPSMargin] "5,1 €"
- > <u>Maximum retail price (selected)</u> [EIPSMaxPrice]
- Price (selected) [EIPSPrice] "26,1 €"
- Price per kg (selected) [EIPSPricePerKilogram] "26,1 €"
- > <u>Price per litre (selected)</u> [EIPSPricePerLitre] "28,0 €"
- ► <u>Tax (selected)</u> [EIPSTax] "2 €"
- ➤ <u>Tint fee (selected)</u> [EIPSTintFee] "0,3 €"
- ➤ <u>Tint price (selected)</u> [EIPSTintPrice] "1,4 €"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

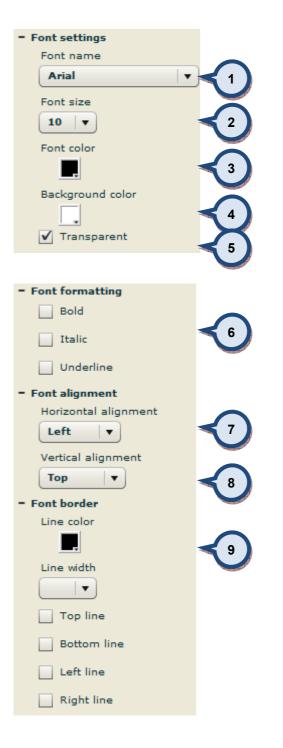
#### Site info

Site info variable displayes infromation about the store. Possible options are:

- > <u>Company name</u> [companyName] "Retailer ABC"
- Site address 1 [address1] "Paint street 1"
- Site address 2 [address2] "City2"
- Site country [country] "Finland"
- Site email [email] retailer1@abc.com
- Site name [siteName] "local site"
- Site phone [phone] "+358 123 123"
- Site post code [postCode] "12312"

#### **Text formatting**

Text format, font type, size, color..., can be set in header line settings (see section 2) or using item details options.



- 1. Set the font
- 2. Set the font size
- 3. Font color
- 4. Background color for the text
- Should the background be transparent
   Font format

- Horizontal alignment, left, centre, right
   Vertical alignment, top. middle, bottom
   Border options, line color. width and orientations.

#### Add picture

-icon to add picture to the canvas. A new window will be opened to define Click on the location where to find needed picture.

📥 Select file to u	upload by app:/Flex_print_layout_designer.swf	x
Look in:		
Recent Places	Paintcan.png PNG image 23,5 KB	•
Desktop	Paintcan290.jpg JPEG image 19,0 KB	
Libraries	Paintcan290.png PNG image 35,0 KB	
Computer	Paintcan290narrow.jpg JPEG image 10,4 KB	Е
Network	Paintcan290narrow.png PNG image 17,7 KB	
	Paintcan290wide.ing	-
	File name:	Open
	Files of type:	Cancel

Supported picture formats are .jpg, .bmp and .png.

#### Place the picture to its location.

Following options are available to control picture items

Item detail	
Image1 🔹	
Image1	
+ Set size	
+ Position	
- Image	
Image path:	
C:\Users\TBackman\Deskto	1
✔ Keep aspect ratio	2

- 1. Location for the picture
- 2. How to treat picture if the area reserved for it doesn't match the picture aspect ratio. If off, picture is scaled to fit whole area.

#### Add line

Click on the *control* -icon to add a line to the canvas. Following options are available to control line properties.

Shape4	
+ Set size	
+ Position	
- Line Line color	
Line width	2

- 1. Set line color
- 2. Set line width

#### Add rectangle

Shape2	
+ Set size	
+ Position	
= Shape	
Fill color	
Line width	
1 🗸	3
Curve	4

- 1. Set fill color and transparent
- 2. Set line color
- 3. Set line width
- 4. Set radius for the corners.

# Add circle / eclipse

Click on the —icon to add a circle or eclipse to the canvas. Following options are available to control circle properties.

Shape3	
+ Set size	
+ Position	
- Shape	
Fill color	
Line color	2
Line width	3

- 1. Set fill color and transparent
- 2. Set line color
- 3. Set line width

#### Add barcode

- Barcode	
Select value to bind	
Tint price barcode 🔹 🔻	
Select barcode type	<1
EAN13	and the second se
Barcode prefix	2
✓ Show label	3

- 1. Type of information to be set into the barcode. Options are:
  - Base cost barcode (type EAN13/UPC)
  - Base margin barcode (type EAN13/UPC)
  - Base price barcode (type EAN13/UPC)
  - Color barcode (type Code39)
  - Colorant cost barcode (type EAN13/UPC)
  - Colorant margin barcode (type EAN13/UPC)
  - Colorant price barcode (type EAN13/UPC)
  - Cost barcode (type EAN13/UPC)
  - Discount barcode (type EAN13/UPC)
  - List price barcode (type EAN13/UPC)
  - Margin barcode (type EAN13/UPC)
  - Maximum retail price (type EAN13/UPC)
  - Order barcode (type Code39)
  - Price barcode (type EAN13/UPC)
  - Price group barcode (type EAN13/UPC)
  - Price per kg barcode (type EAN13/UPC)
  - Price per litre barcode (type EAN13/UPC)
  - Tax barcode (type EAN13/UPC)
  - Tint fee barcode (type EAN13/UPC)
  - Tint price barcode (type EAN13/UPC)

2. Barcode prefix gives an option to pinpoint barcode type to one used in cashier system.

EAN/UPC barcode consist four distinct areas

- > prefix (links the item to cashier system) "2303222"
- > "zero" padding (fills the empty space of the others) "000"
- > encoded price (price coming from the database) "89"
- > checksum "5"

# 2 303222 <mark>000</mark>895

If prefix is started with zero "0", created barcode is compatible with UPC-based coding.

3. Show label adds barcode label into the barcode, see below picture.



# Add 2D barcode

Click on the –icon to add barcode to the canvas. Following options are available to control circle properties.

Barcode2D2	
+ Set size	
+ Position	
= Barcode 2D	
Select value to bind	
Color barcode 🛛 🔻	<b>1</b>
Select barcode type	
Data Matrix Ecc 200 🛛 🔻	2
Show quite zone	3

- 1. Type of information to be set into the barcode. Options are:
  - > Color barcode
  - > Order identificator
- 2. Type of 2D barcode, options are:
  - Data Matrix Ecc 200
  - > QR Code

QR

Data Matrix



3. Show quite zone add empty margins around the barcode.