



InnovaTint

LAB

Training Manual

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1 Introduction

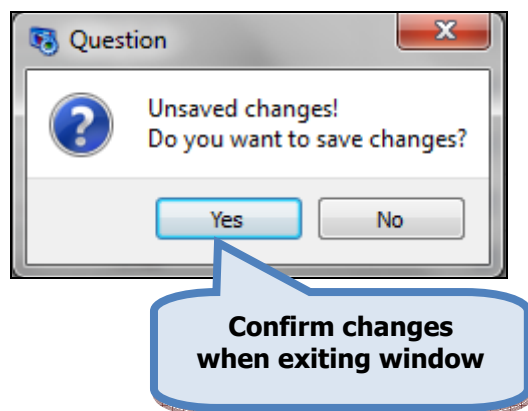
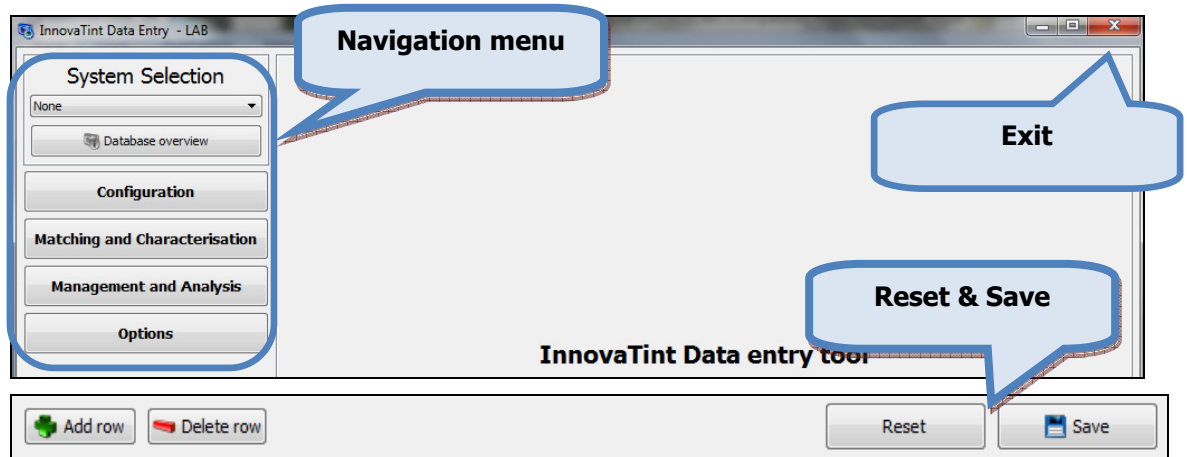
1.1 Main functionality


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

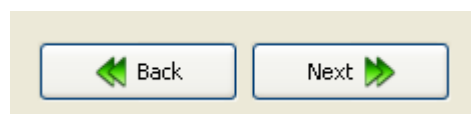
1.2 Navigation in program

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.



Note: After each of the processes described on this manual the click of the **Save** button  is required to complete the process.

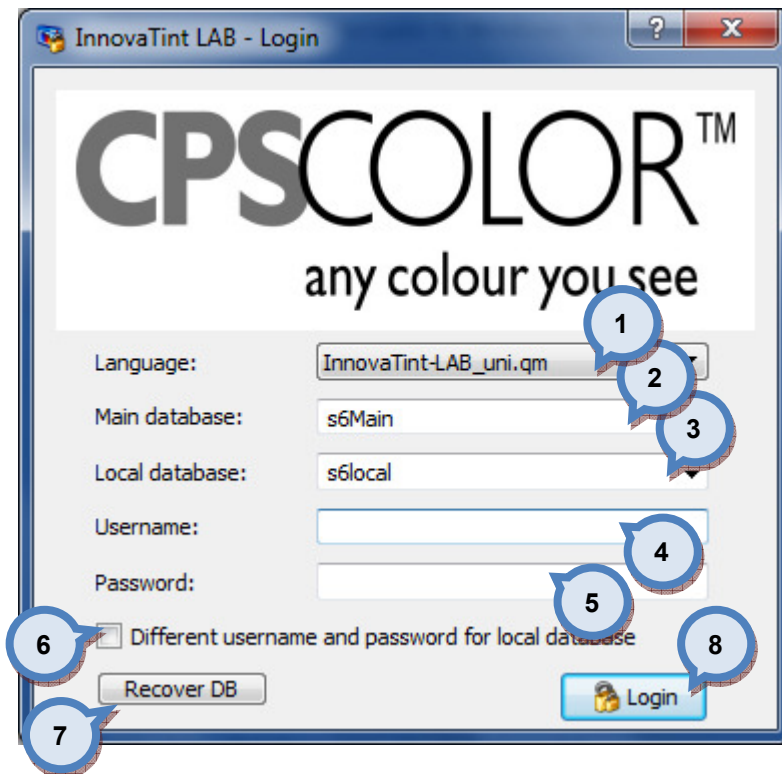
Some of the pages contains **Back** and **Next** buttons. With these buttons you can either go back to the previous page or to proceed to the next page on the process.



1.3 Start the program

To start InnovaTint software, navigate in to the **Windows Start menu** ⇒ **Programs** ⇒ **InnovaTint** ⇒ **InnovaTint Lab**.

To **login** in to the InnovaTint LAB program:



1. Select the **Language** from the drop-down list.
2. Select the **Main database** from the drop-down list.
3. Select the **Local database** from the drop-down list.
4. Type the **Username**.
5. Type the **Password**.

The default configuration has 4 user names:

ITR	= Data reader privileges	default password = ITR
ITU	= Data user privileges	default password = ITU
ITA	= Data administrator privileges	default password = ITA
dba	= Database administrator privileges	default password = sql

It is highly recommended to change dba username. See further instructions in section 5.2.

6.If you need to use different username and password for local database enable check box **Different username and password for local database.**


7.If you like to recover previously saved database (backup), click **Recover DB** button*)

8.Click **Login** button

*) see further instruction on database recovery on section 5.3 Options>Backup.

1.4 Login with different username and password in local and main database

To **login with different username and password in local and main database**:



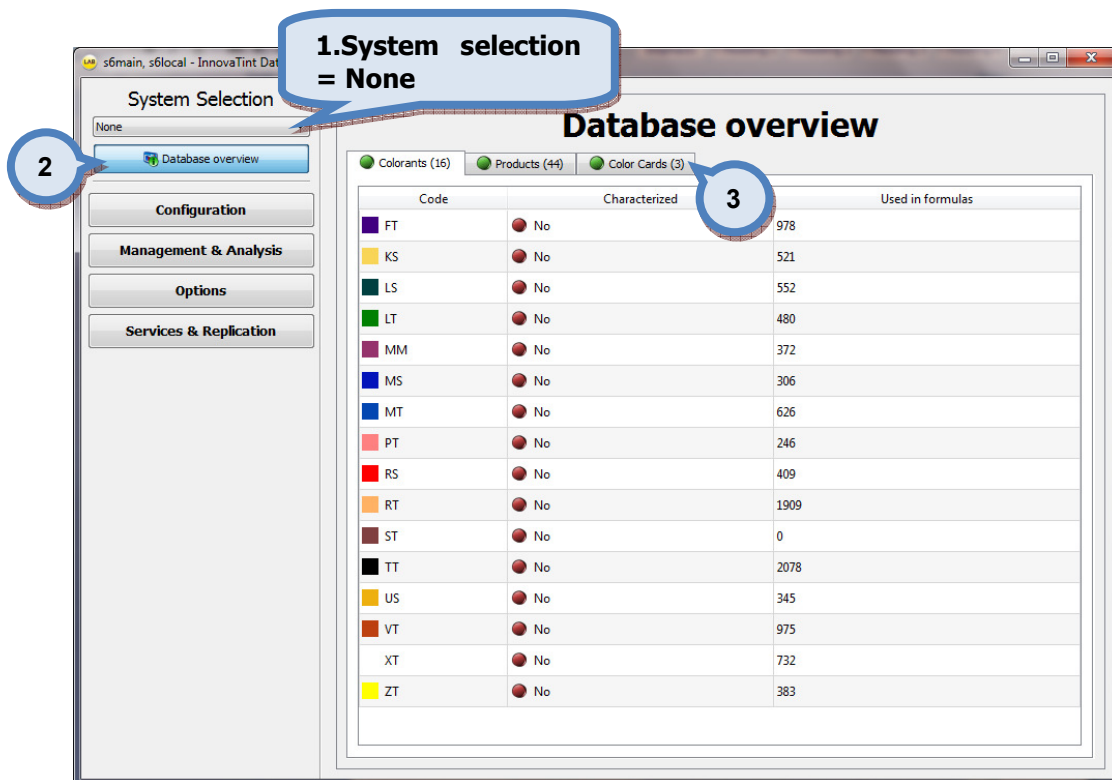
The screenshot shows the 'InnovaTint LAB - Login' window. At the top, it displays the 'CPS COLOR™ any colour you see' logo. Below the logo, there are several input fields and a checkbox. The fields are: 'Language:' (dropdown menu showing 'InnovaTint-LAB_uni.qm'), 'Main database:' (dropdown menu showing 's6Main'), 'Local database:' (dropdown menu showing 's6local'), 'Username:' (text input), 'Password:' (password input), 'Local username:' (text input), and 'Local password:' (password input). There is a 'Recover DB' button and a 'Login' button. Five numbered callouts (1-5) are placed over the form: 1 points to the 'Main database' dropdown, 2 points to the 'Username' field, 3 points to the 'Different username and password for local database' checkbox, 4 points to the 'Local username' field, and 5 points to the 'Login' button.

1. Select the **Language**, the **Main database** and the **Local database**.
2. Enter the **Username** and the **Password** for the **Main** database.
3. Enable the **Different username and password for local database** check box.
4. Enter the **Username** and the **Password** for the **Local** database.
5. Click the **Login** button.

1.5 Database overview

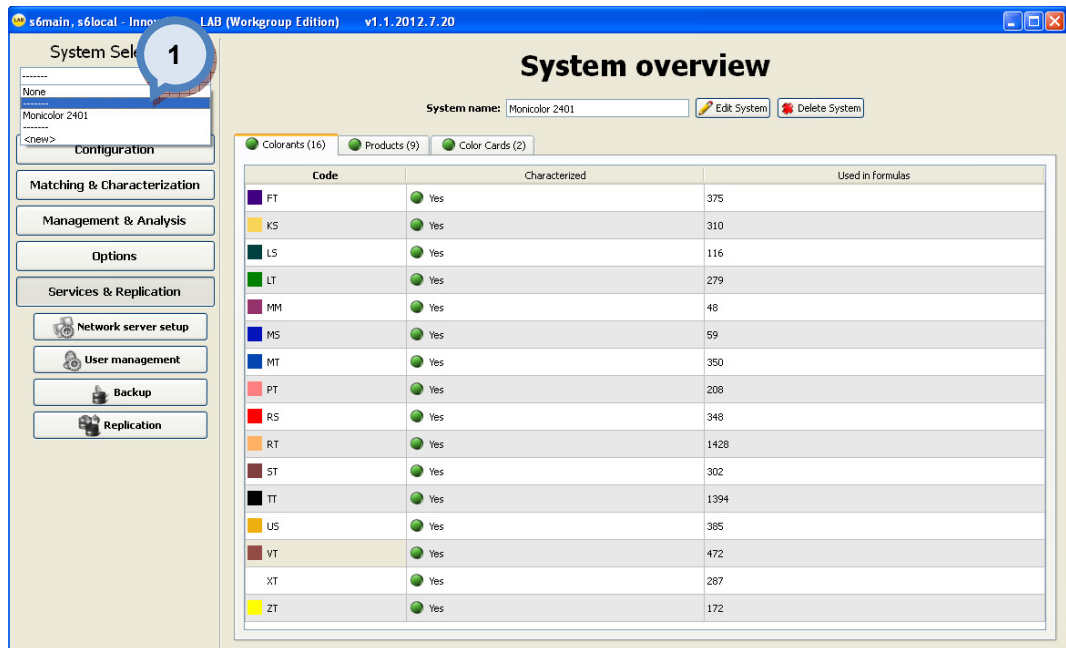
On **Database overview** page, you can view colorants, products, and color cards in whole database. In this page you cannot make any changes to database, but you can get an overview of all components in whole database. This is most useful function, when you have multiple systems in your database.

This page has 3 tab pages: Colorants, Products, and Color Cards.



1. Select **system as None** from drop down menu (None is default when you open InnovaTint software, and all components in database is shown)
2. Click **Database overview** button on left side navigation area.
3. Click **headers** on tab pages to navigate between Colorants, Products, and Color cards views.

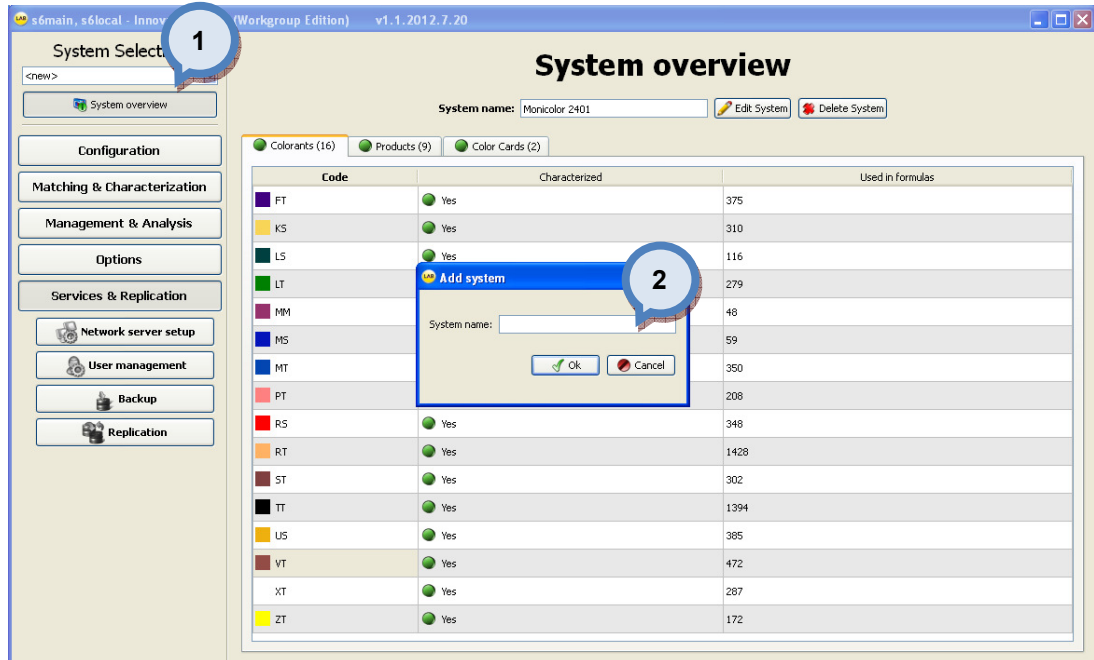
1.6 Select existing system



1. Select **system** from drop down menu.

1.7 Create new system

If you need to make smaller entity of whole database, you can create new system. This can be done in any page of the program.



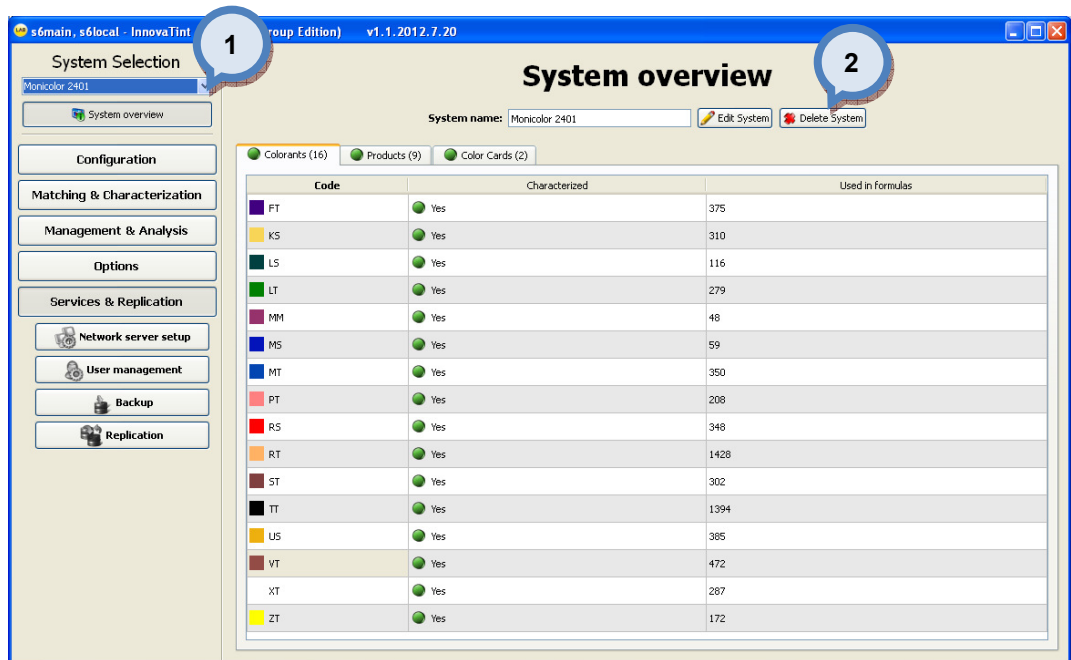
The screenshot displays the 'System overview' window in the InnovaTint LAB software. The window title is 's6main, s6local - InnovaTint (Workgroup Edition) v1.1.2012.7.20'. The main area shows a table of systems with columns for 'Code', 'Characterized', and 'Used in Formulas'. A callout box labeled '1' points to the '<new>' dropdown menu in the 'System Select' section. A callout box labeled '2' points to the 'Add system' dialog box, which has a 'System name:' input field and 'Ok' and 'Cancel' buttons.

Code	Characterized	Used in Formulas
FT	Yes	375
KS	Yes	310
LS	Yes	116
LT	Yes	279
MM		48
MS		59
MT		350
PT		208
RS	Yes	348
RT	Yes	1428
ST	Yes	302
TT	Yes	1394
US	Yes	365
VT	Yes	472
XT	Yes	287
ZT	Yes	172

1. Select **<new>** from drop down menu

2. Enter **name** for new system

1.8 Delete existing system

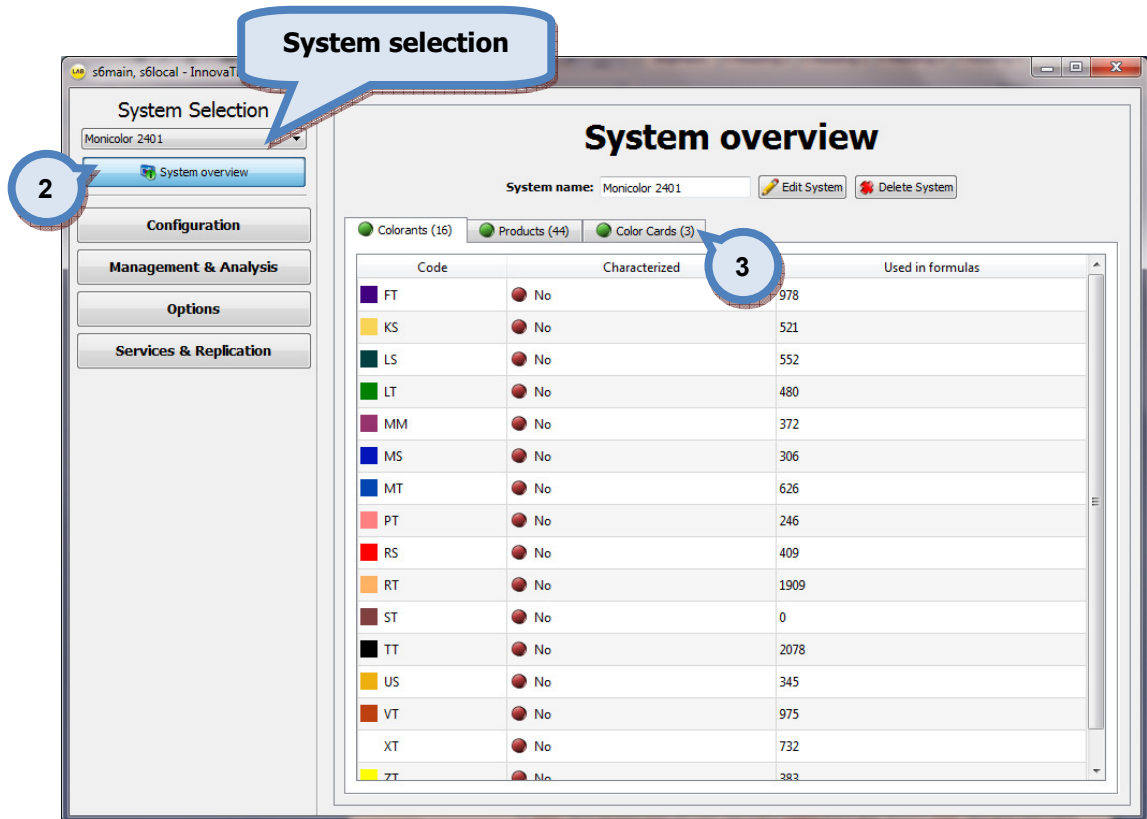


1. Select **system** from drop down menu

2. Click **Delete System** button

1.9 System overview

On System Overview page, you can view colorants, products, and color cards in system. In this page you cannot make any changes to system, but you can change system name and delete the whole system by clicking **Edit System** or **Delete System** buttons. You can also see if system configuration is done properly from "traffic lights" on right hand side or the page.



1. Select **system** from drop down menu.

2. Click the **System overview** button.

3. Click the **headers** on tab pages to navigate between the Colorants, Products, and Color cards views.

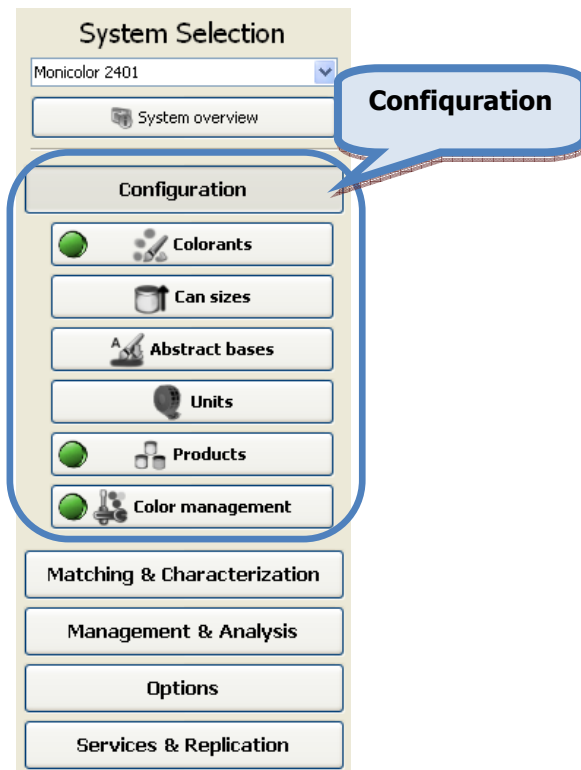
In **Characterized** column Green Traffic lights symbol indicates if item is characterized into the database.

In **Used in formulas** column you can see in how many formulas are any specific colorant or 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.

In **Color cards** section, you can see how many colors are in any specific color card and how many of those have been measured into to the database.

2 Configuration

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

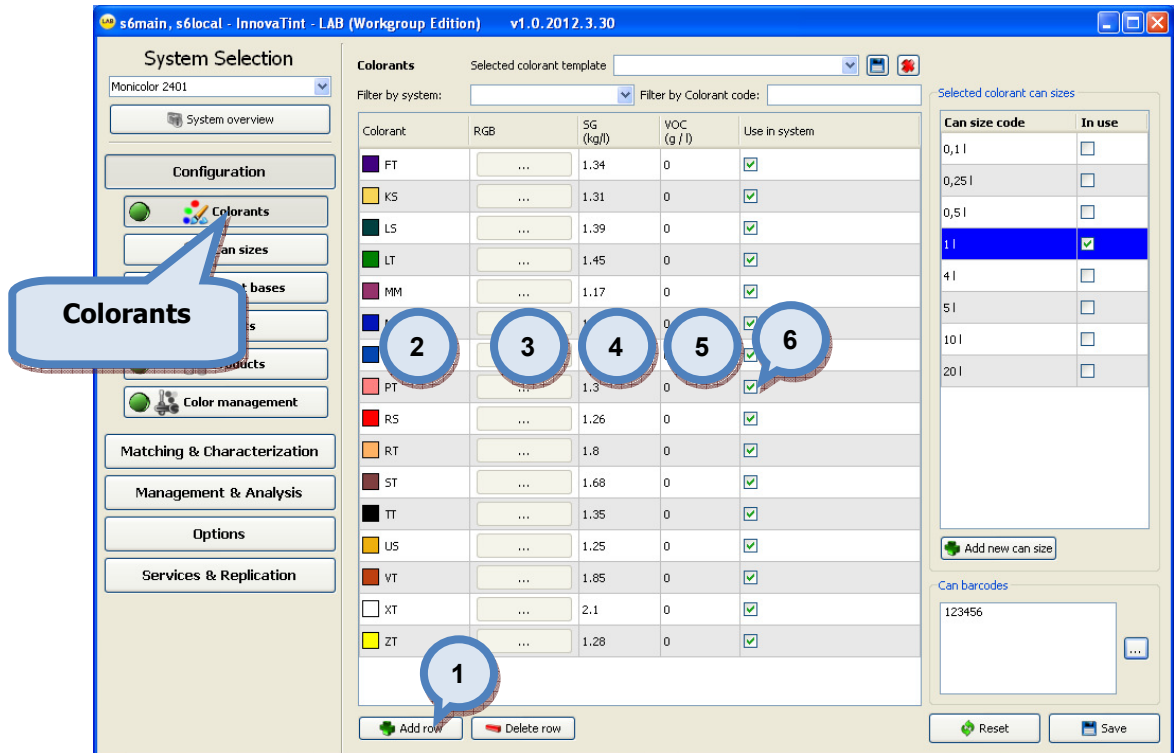


You can see characterization status for the components with the traffic lights: green meaning characterization done. Traffic lights are not in use when the whole database is selected, i.e. system as "None".

2.1 Colorants

2.1.1 Add a new colorant

To add a new colorant, navigate into the **Configuration** ⇒ **Colorants** page.



1. Click on the **Add row** button .

2. Select the **Colorant** column on the empty row and enter the name of the colorant.

3. Click the **RGB** column to select the color symbol to be shown on the screen.

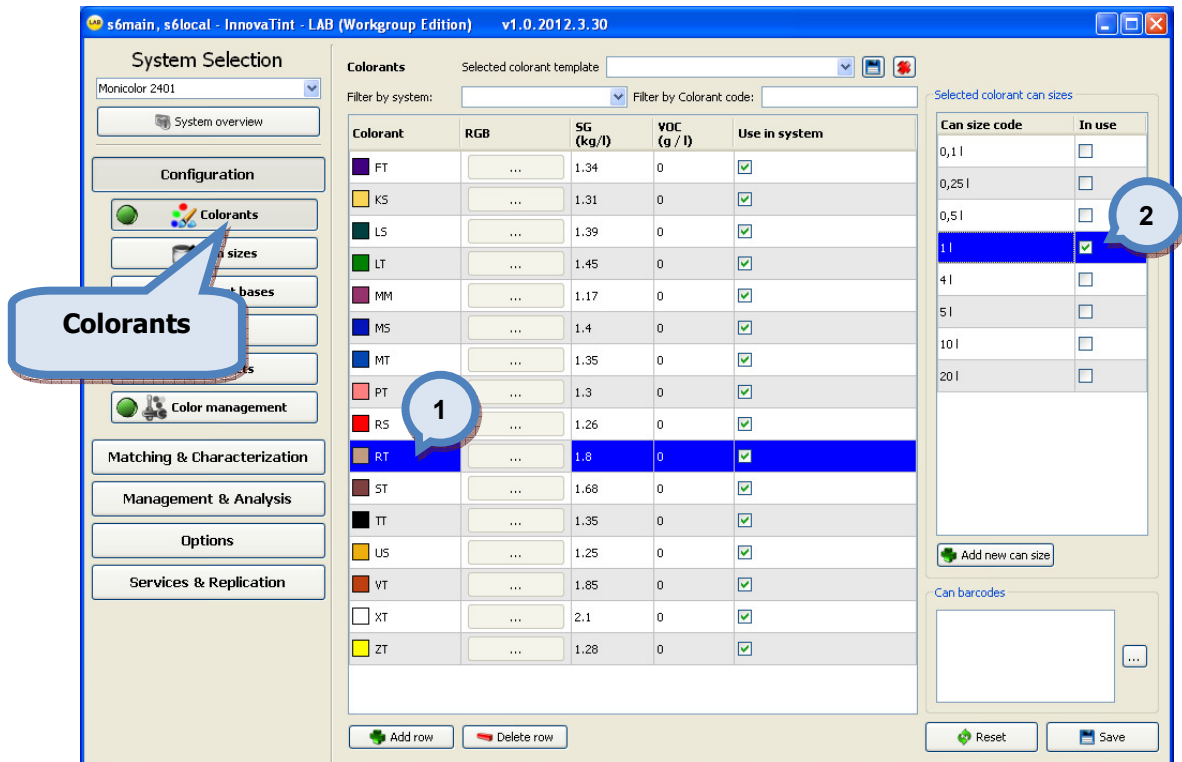
4. Enter the **Specific gravity** of the colorant to the Specific gravity column. The unit of measure is kg/litre.

5. Enter the **Solvent content** of the colorant to the VOC column. The unit of measure is g/litre.

6. Click the check box in the **Use in system** column.

2.1.2 Select a can size for the colorant

To select a can size to be used with the colorant, navigate into the **Configuration** ⇒ **Colorants** page.



1. Select the **Colorant** by clicking colorant name

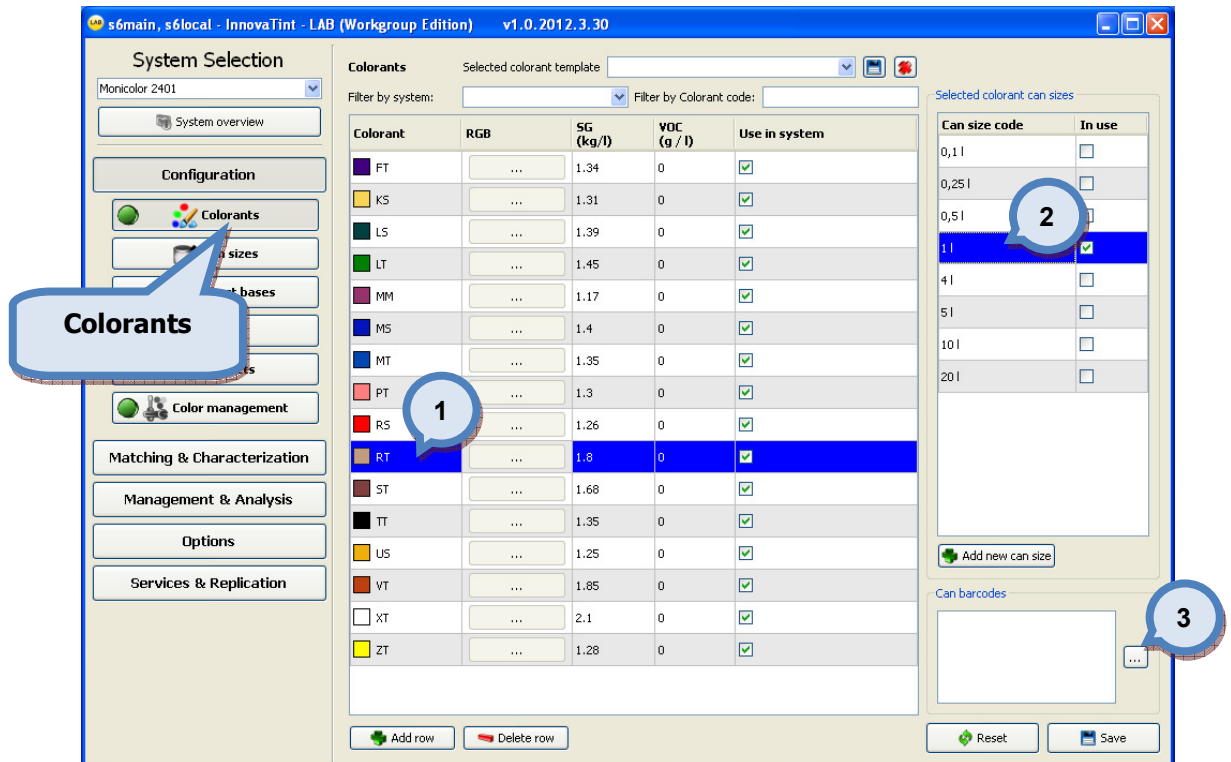
2. Enable the check box **In use** on each can size you wish to use


Note: Can sizes have to be defined for each colorant separately.

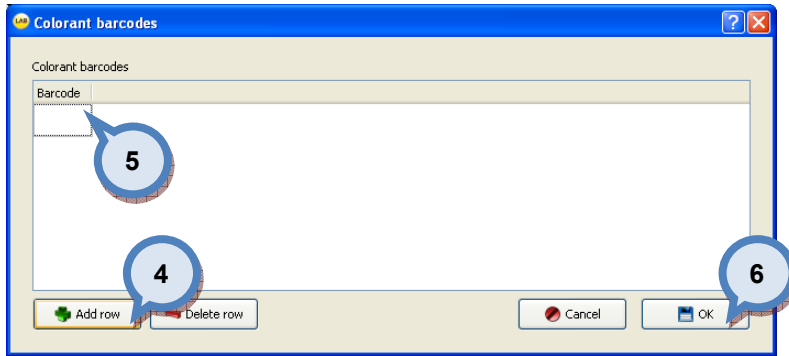
Note: If you need to create new can sizes or bar codes, follow instructions on Can sizes and Bar code sections.

2.1.3 Set a bar code for the colorant can

To set a bar code for the colorant can, navigate to the **Configuration** ⇒ **Colorants** page.



1. Select a **Colorant** by clicking the colorant name
2. Select a **Can size** by clicking the can size code
3. Click a  button.



4. Click the **Add row** button to add new row to the table.



5. Enter **Bar code** to the empty row.

6. Click **OK** button.

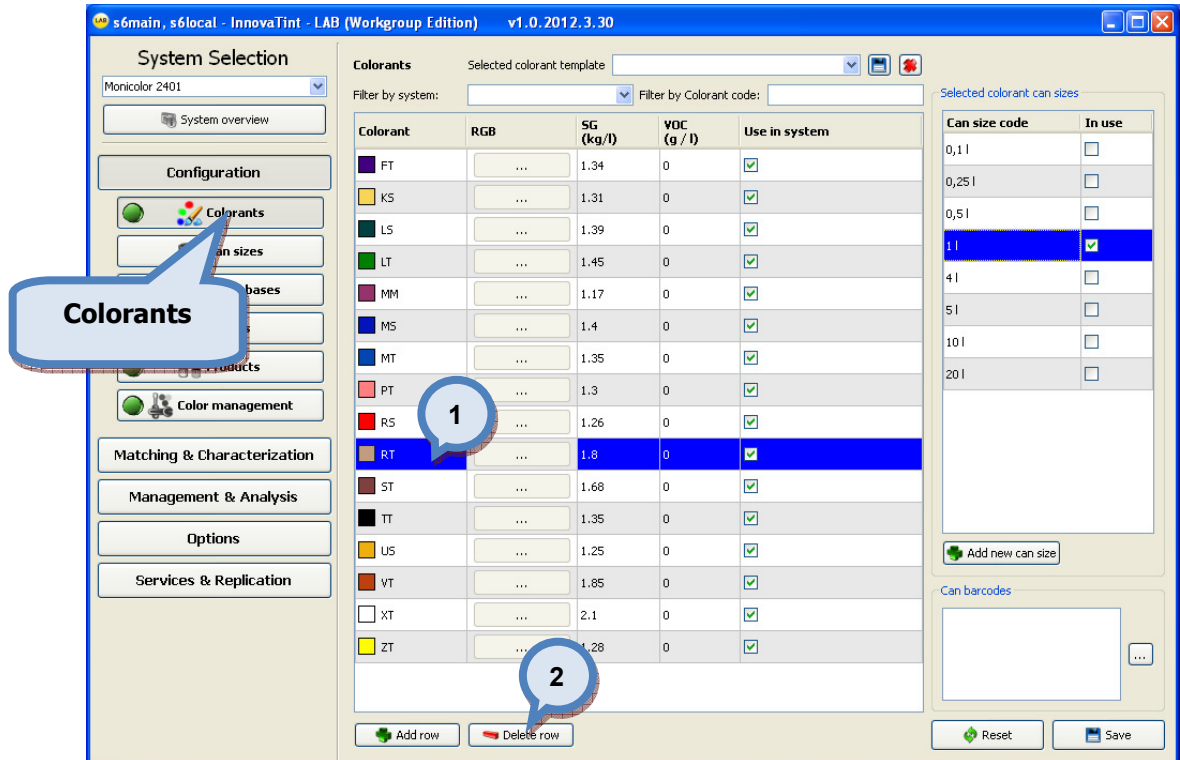


Note: Can sizes have to be defined for each colorant separately.


Note: If you need to create new can sizes or bar codes, or delete those, follow the instructions on Can sizes and Bar code sections.

2.1.4 Delete a colorant

To delete a colorant, navigate to the **Configuration** ⇒ **Colorants** page.



1. Select **Colorant** by clicking colorant name

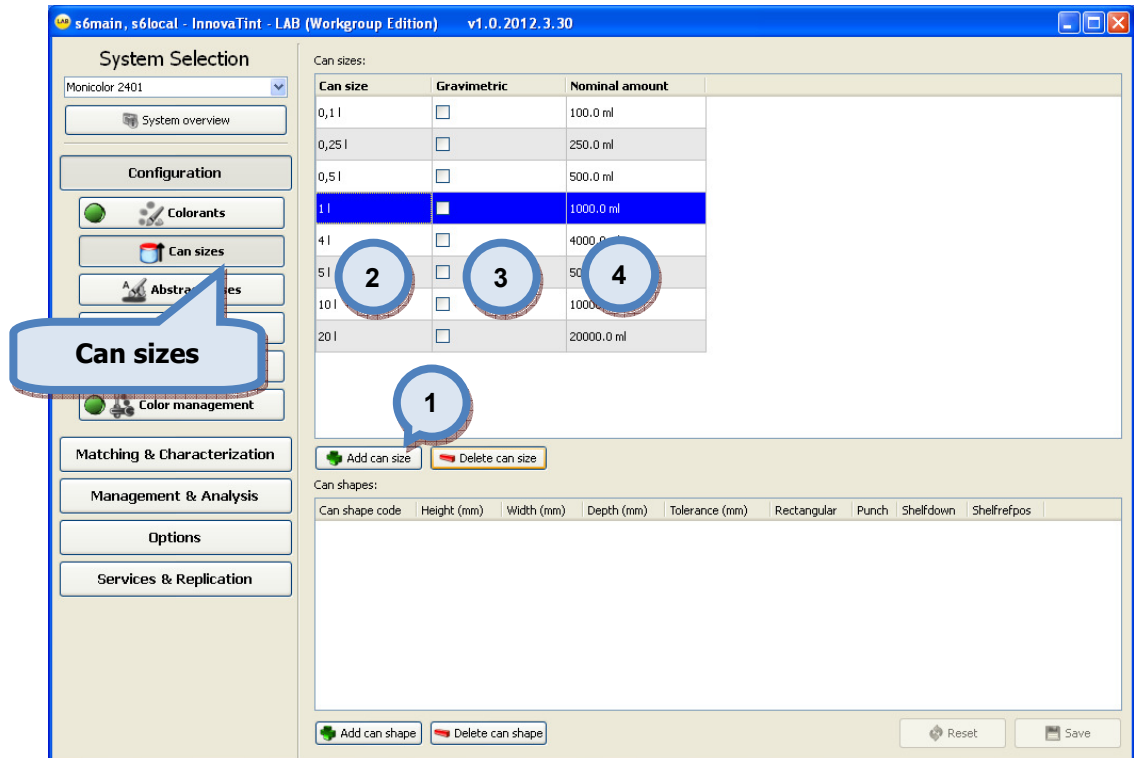
2. Click **Delete row** button 

Note: Colorant cannot be deleted if colorant is used in any formula.

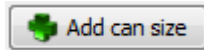
2.2 Can sizes

2.2.1 Add a new can size

To add a new can size, navigate to the **Configuration** ⇒ **Can sizes** page.



1. Click the **Add can size** button.



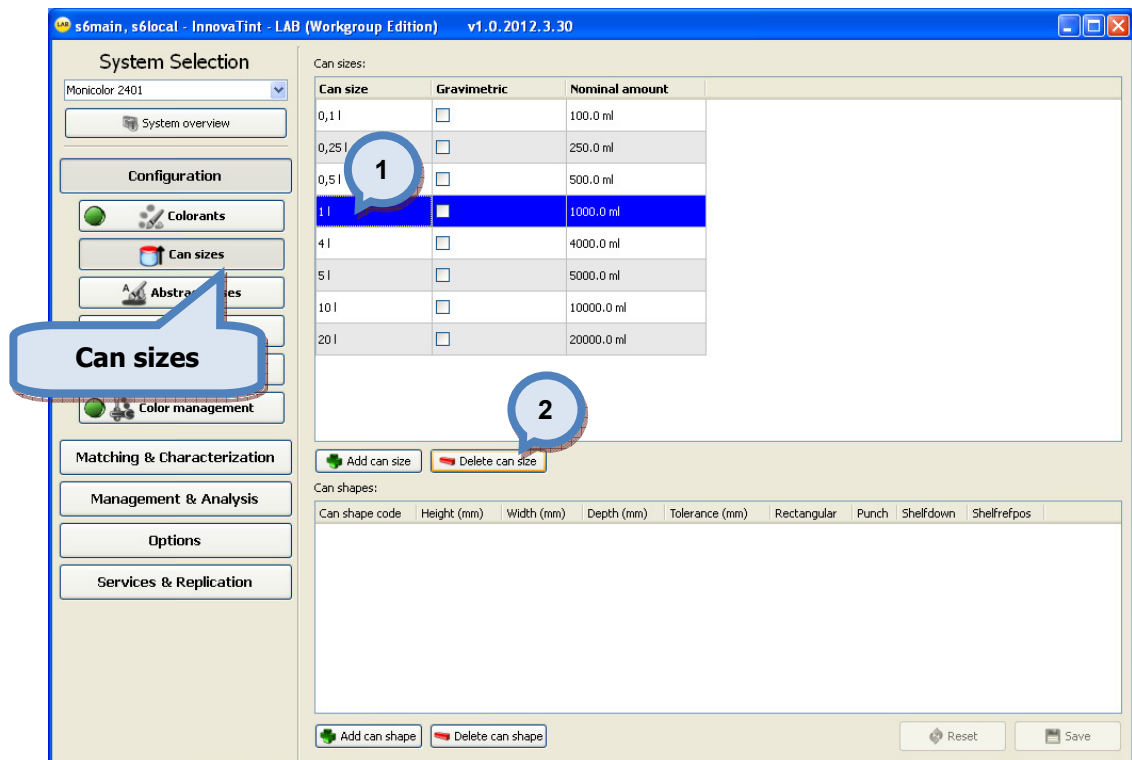
2. Select the **Can size code** column on a empty row and enter the name or the code for a new can size

3. Enter the exact volume of the can to **nominal amount** column.

4. Enable the check box **Gravimetric** if the content of this can in this can size is controlled by weight.

2.2.2 Delete a can size

To delete a can size, navigate to the **Configuration** ⇒ **Can sizes** page.

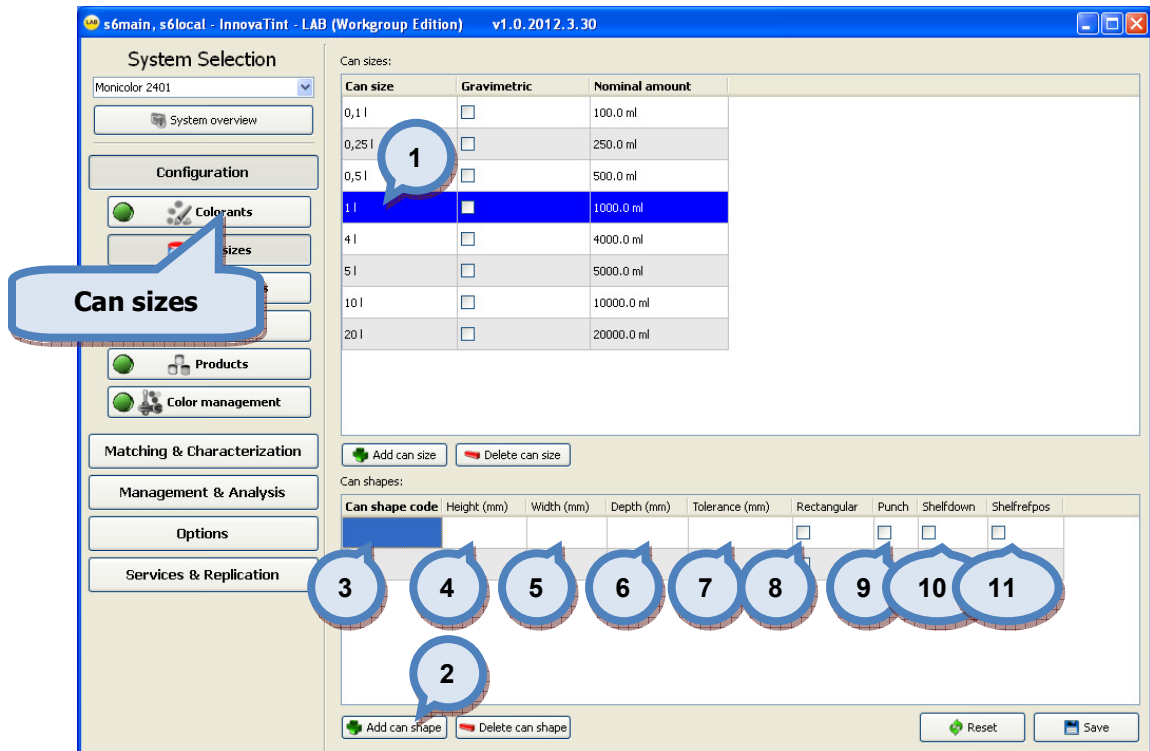


1. Select a can size by clicking the can size name or the code.

2. Click the **Delete can size** button. 

2.2.3 Add a new can shape

To add a new can shape for the can size, navigate to the **Configuration** ⇒ **Can sizes** page.



1. Select a **Can size** by clicking the can size name or the code.

2. Click the **Add can shape** button. 

3. Select a **Can shape code** column on the empty row and enter the name or the code for a new can shape.

4. Enter the height of the can to **Height** column.

5. Enter the width of the can to **Width** column.

6. Enter the depth of the can to **Depth** column.

7. Enter the tolerance of the can to **Tolerance** column.

8. When the check box **Rectangular** is enabled, the can shape is a box-like paint can.

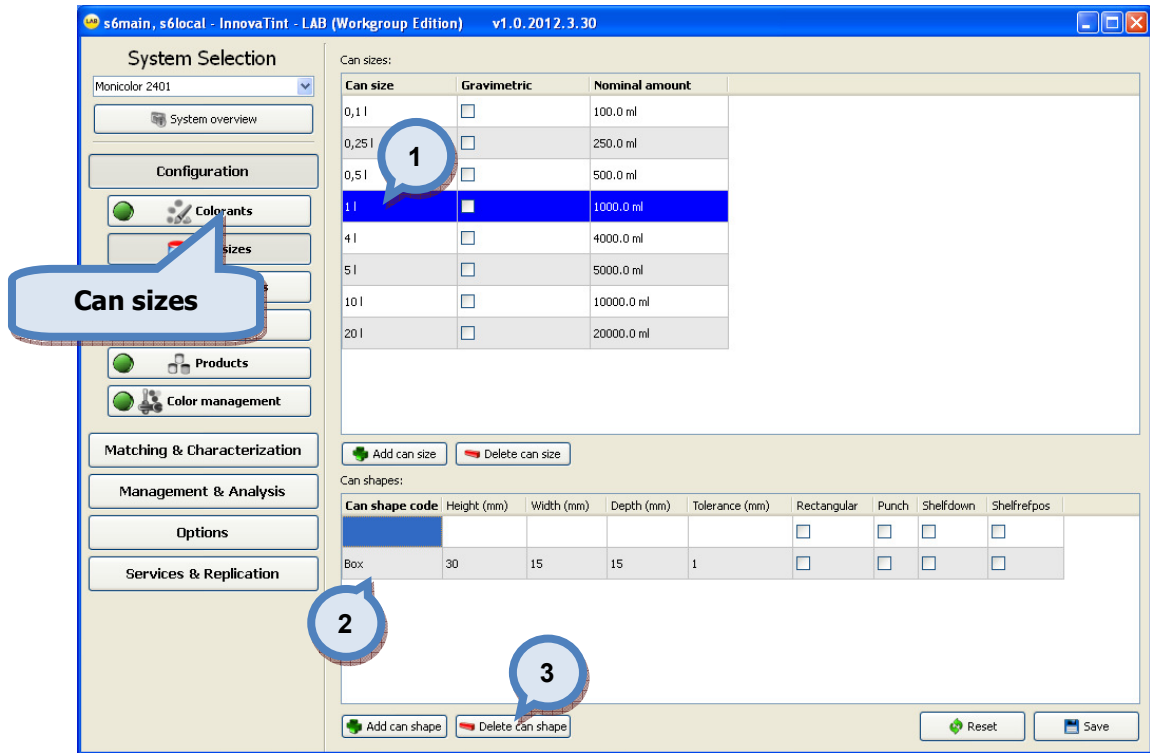
9. When the check box **Punch** is enabled automatic puncher is enabled for this can shape. The puncher is used to create a hole to the lid of the paint can, so that colorants can be dispensed through the hole without opening the paint can.


10. When the check box **Shelfdown** is enabled shelf down procedure is enabled for this can shape. This procedure will lower the shelf to the lowest point after dispensing.

11. When the check box **Shelfrefpos** is enabled shelf reference position procedure is enabled for this can shape. The shelf reference position can be used to set a custom shelf height.

2.2.4 Delete a can shape

To delete a can shape for the can size, navigate to the **Configuration** ⇒ **Can sizes** page.



1. Select a **can size** by clicking the can size name or the code (or any part of that row).
2. Select a **can shape** by clicking the can shape name or the code (or any part of that row).
3. Click **Delete can shape** button 

2.3 Abstract bases

2.3.1 Add a new abstract base

To add a new abstract base, navigate to the **Configuration** ⇒ **Abstract bases** page.

The screenshot shows the 'Abstract bases' configuration page in the InnovaTint LAB software. The interface includes a sidebar with navigation options and a main area displaying a table of abstract bases. A callout box labeled '1' points to the 'Add row' button at the bottom, and another callout box labeled '2' points to the first empty row in the table.

Abstract base code	Used in products	Used in formulas
A	4	636
AA	4	1006
B	4	115
C	8	321

1. Click the **Add row** button.

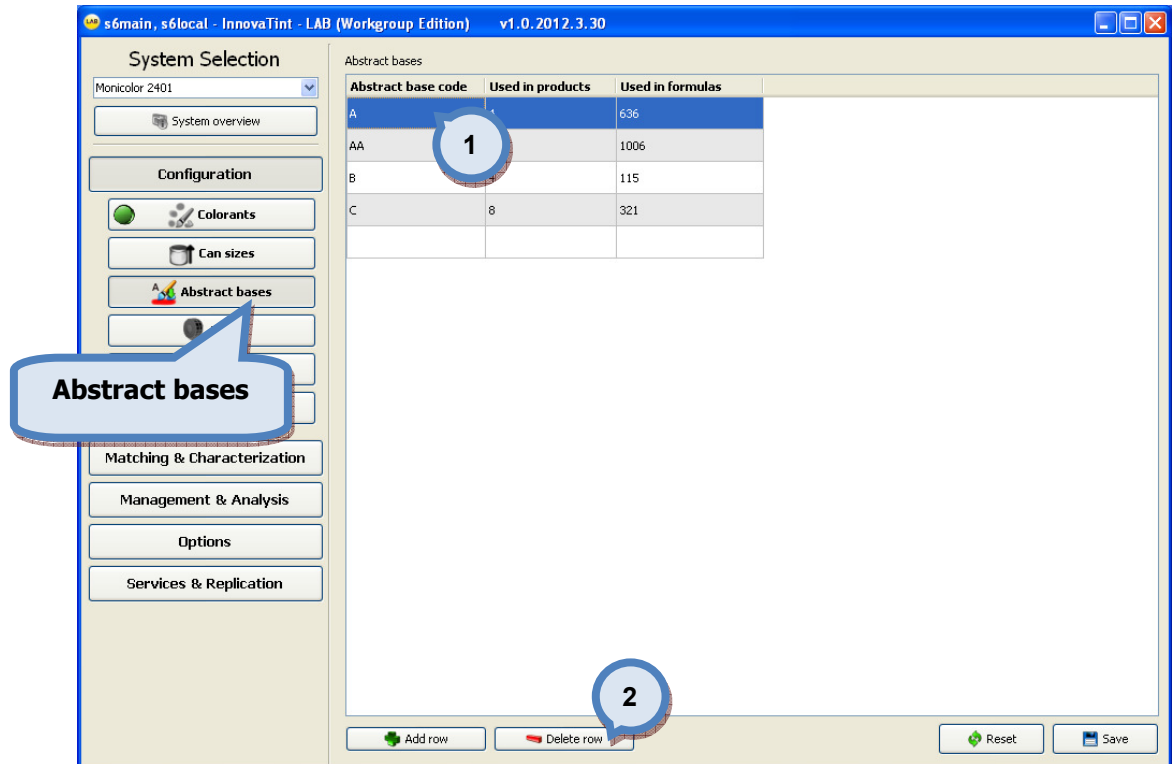


2. Select a **Abstract base code** column on a empty row and enter the name or code for the new abstract base.

Note: This procedure only creates a name or the code for the new abstract base. To make a new abstract base fully functional the characterization procedure has to be done for the new abstract base. Please follow abstract base characterization instruction on section 3.

2.3.2 Delete an abstract base

To delete a abstract base, navigate to the **Configuration** ⇒ **Abstract bases** page.



The screenshot shows the 'Abstract bases' configuration page in the InnovaTint LAB software. The interface includes a sidebar with navigation options and a main table of abstract bases. A callout box labeled 'Abstract bases' points to the sidebar. A blue circle with the number '1' highlights the 'AA' row in the table. Another blue circle with the number '2' highlights the 'Delete row' button at the bottom of the table.

Abstract base code	Used in products	Used in formulas
A		636
AA		1006
B		115
C	8	321

1. Select a abstract base by clicking the abstract base name or any part of the row.

2. Click the **Delete row** button.

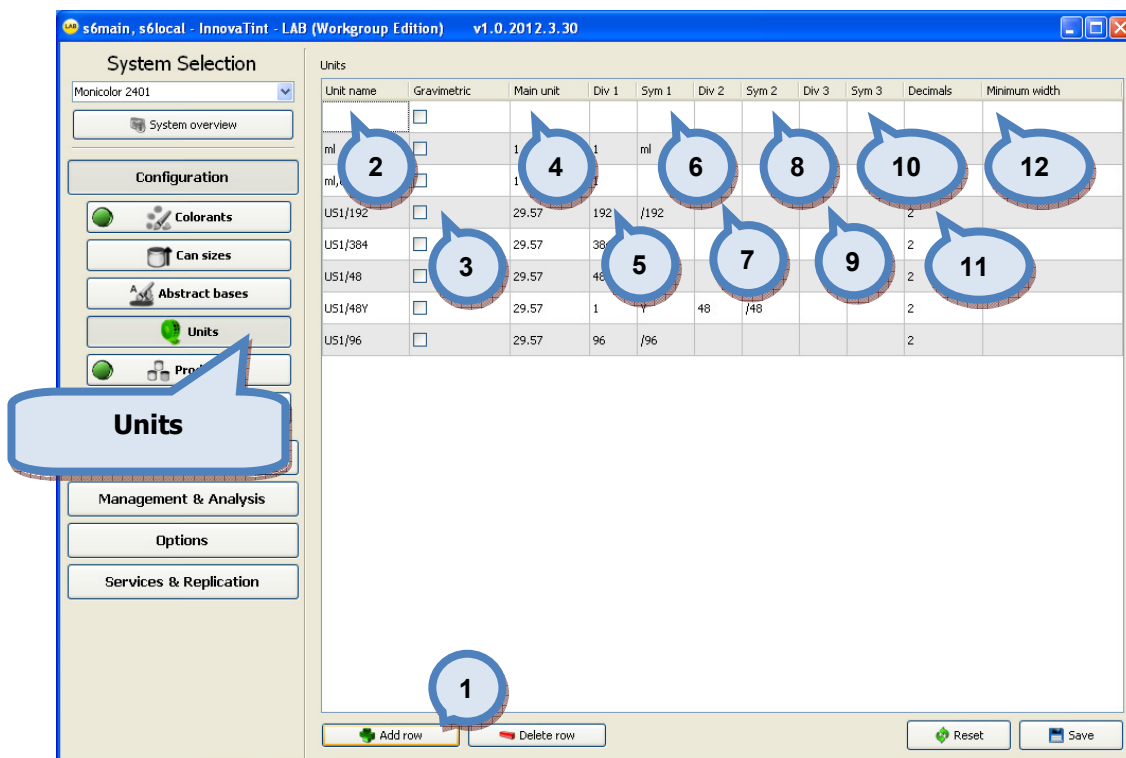


Note: The abstract base cannot be deleted if the abstract base is used in any of the products.

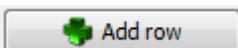
2.4 Units

2.4.1 Add a new unit

To add a new unit, navigate to the **Configuration** ⇒ **Units** page.



1. Click the **Add row** button



2. Select the **Unit name** column on a empty row and the enter name or the code for the new unit.

3. Click on the check box **Gravimetric** if the base paint in this can size is controlled weight.

4. Enter the **Main unit**.

5. Enter the number to be used in 1st division in the **Div 1** column.

6. Enter the symbol for 1st division to the **Sym 1** column.

7. Enter the number to be used in 2nd division in the **Div 2** column.

8. Enter the symbol for 2nd division to the **Sym 2** column (must be multiple of previous).

9. Enter number to be used in 3rd division in the **Div 3** column.

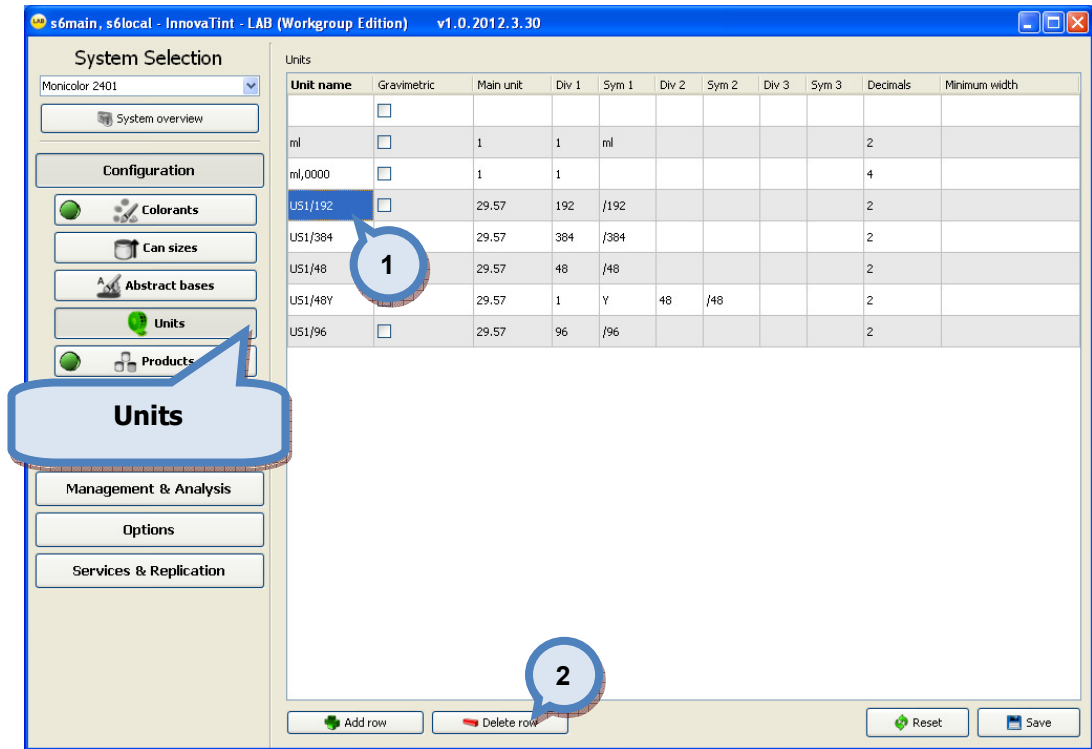
10. Enter symbol for 3rd division to the **Sym 3** column (must be multiple of previous).

11. Enter the **number of decimals** to be shown on the screen on the Decimals column.

12. Enter the **minimum number of numbers** show on the screen Minimum width column.

2.4.2 Delete a unit

To delete a unit, navigate to the **Configuration** ⇒ **Units** page.



1. Select the **Unit** by clicking the unit name.

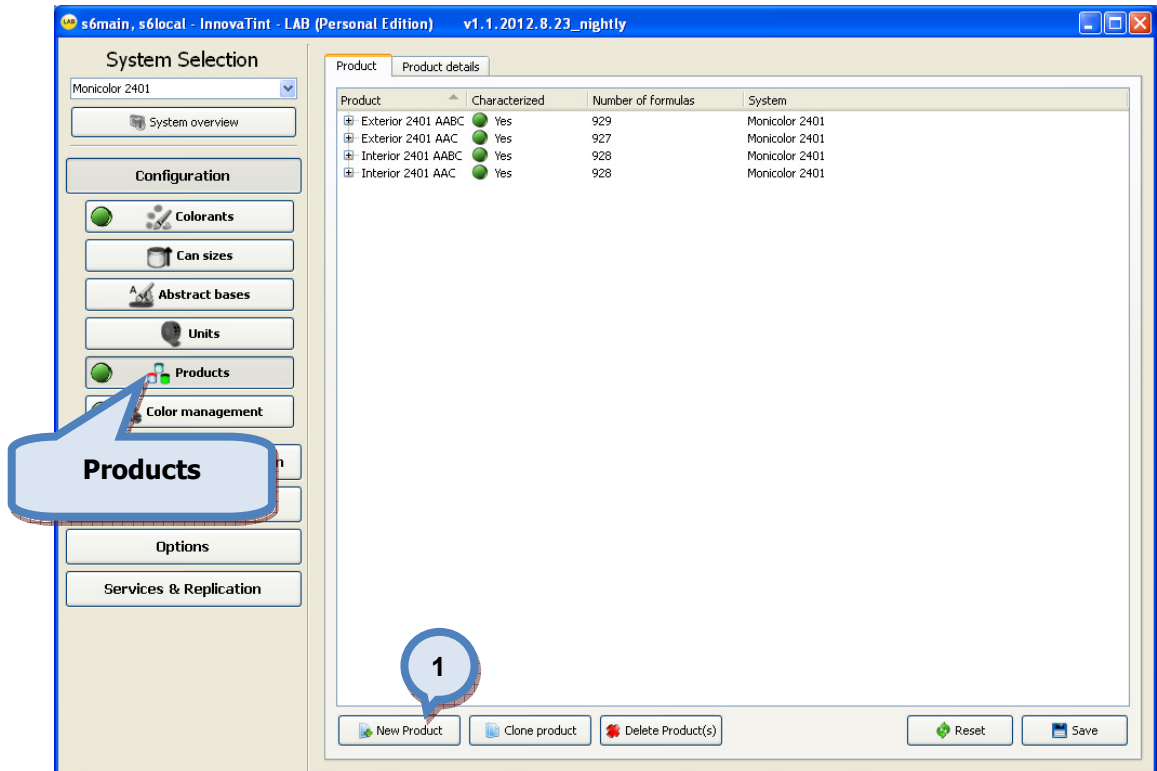
2. Click the **Delete row** button.



2.5 Products

2.5.1 Add a new product

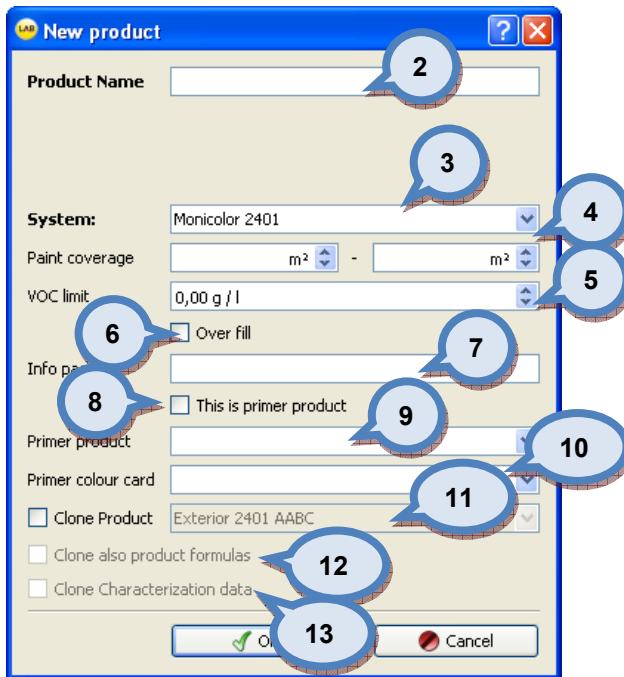
To add a new product, navigate to the **Product** tab page of the **Configuration** ⇒ **Products** page.



1. Click the **New product** button.



The new product window opens up.



2.Enter the product name into the **Product Name** text field (the product name must be unique).

3.Select the **System** from the dropdown list.

4.Enter the lower and the upper limit for the **paint coverage**. The unit of the measure is litre/m².

5.Enter the **VOC** limit. The unit of the measure is grams/litre.

6.Enable the check box **Over fill** to determine if the total amount of paint and colorant can exceed the nominal amount of the paint can.

7.Enter the file name and the path for the **Info page** for additional information. This can be either local file, or web-based content. This page is shown at the POS software when this product is used.

8.Enable the **This is primer product**, if the product you are now creating is the primer product.

9.Select the **Primer** product to be used from the drop down list (optional: only if the primer is needed).

10.Select the **Color card** to be used with the primer product (optional: only if the primer is needed).

11.If you like to use same settings as other product, enable the check box **Clone product** and select a product from the drop down list to copy properties into this new product you are creating.

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

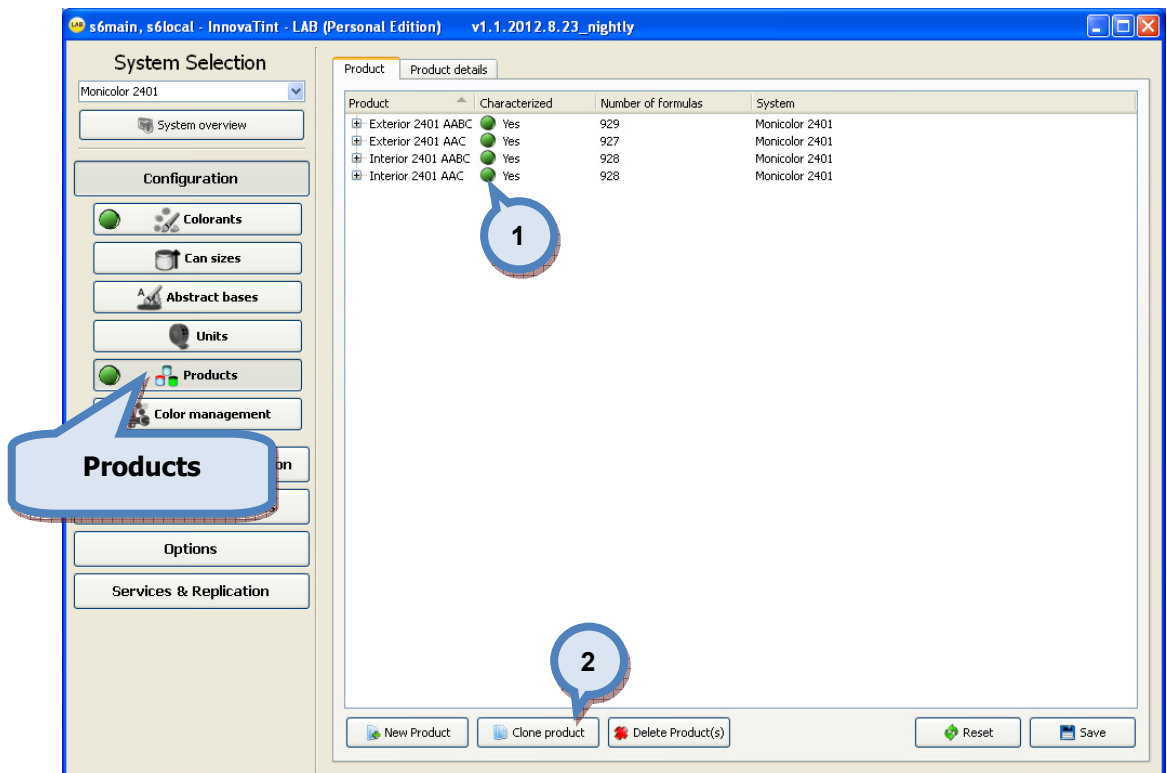
12.Enable the check box **Clone also product formulas** if you need to copy also the formulas of the product you are copying.

13.Enable the check box **Clone Characterization data** if you need to copy also the characterization data of the product you are copying.

To add the base paints to the product, proceed in to the section: **To add new base.**

2.5.2 Copy an existing product details into a new product

To copy a product details into a new product, navigate to the **Product** tab page of the **Configuration** ⇒ **Products** page.



1. Select the **Product** from the dropdown list or use CTRL + left mouse button to select multiple products.

2. Click the **Clone product** button.

Clone product

The new product window opens up.

Product Name Interior 2401 AAC |

Product name is already in use

System: Monicolor 2401

Paint coverage m² - m²

VOC limit 0,00 g / l

Over fill

Info page

This is primer product

Primer product

Primer colour card

Clone Product Interior 2401 A

Clone also product formulas

Clone Characterization data

Ok Cancel

3.Change the **Product Name** in the text field (as the product name must be unique).

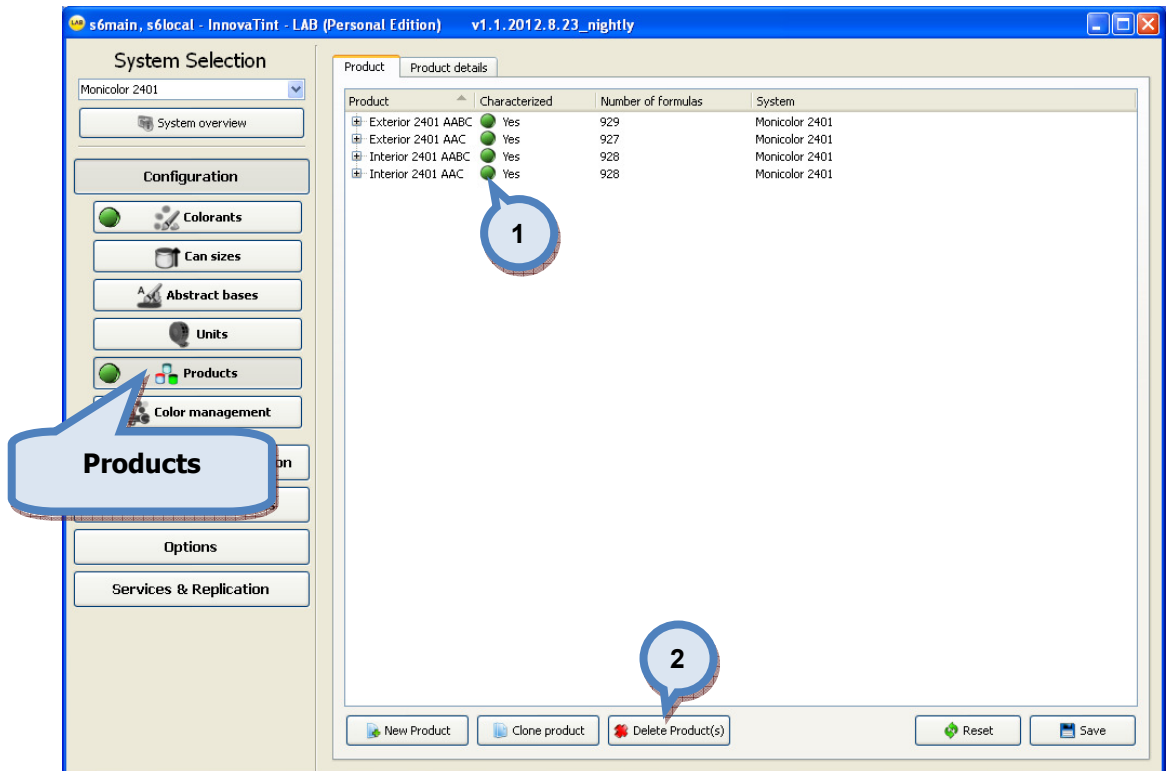
4.Make needed changes into any of the items.

5.Enable the check box **Clone also product formulas** if you need to copy also the formulas of the product you are copying.

6.Enable the check box **Clone Characterization data** if you need to copy also the characterization data of the product you are copying.

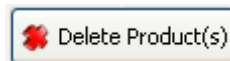
2.5.3 Delete a product

To delete a product, navigate to the **Product** tab page of the **Configuration** ⇒ **Products** page.



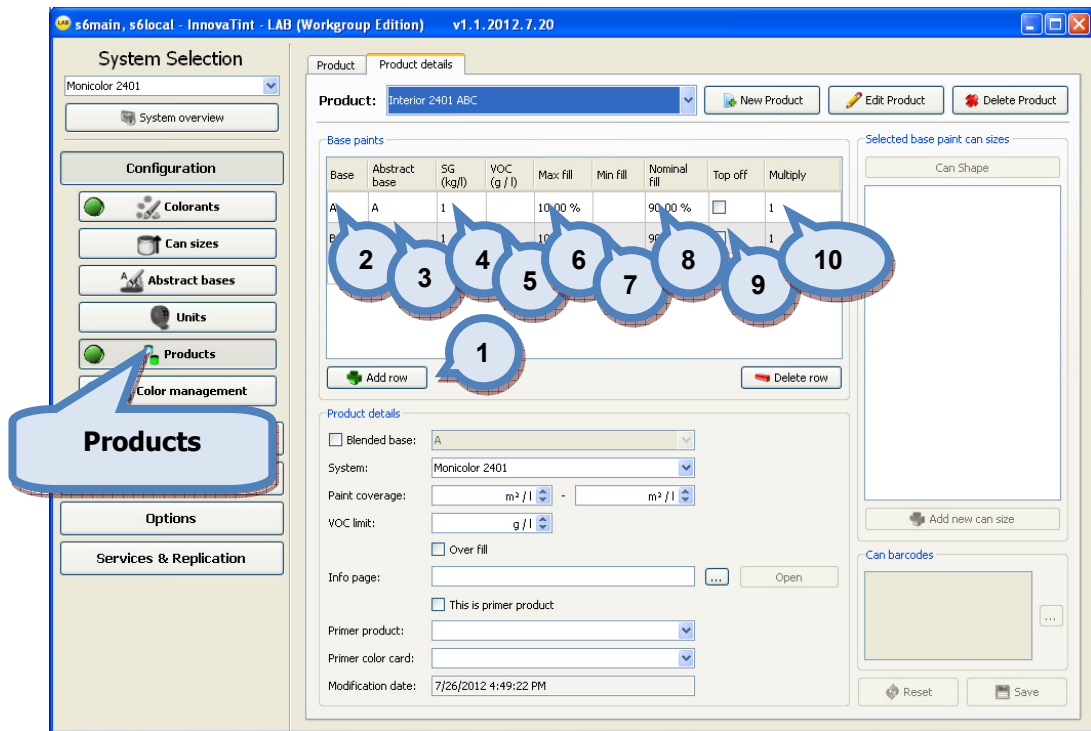
1. Select the **Product** from the dropdown list or use CTRL + left mouse button to select multiple products.

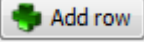
2. Click the **Delete product(s)** button.



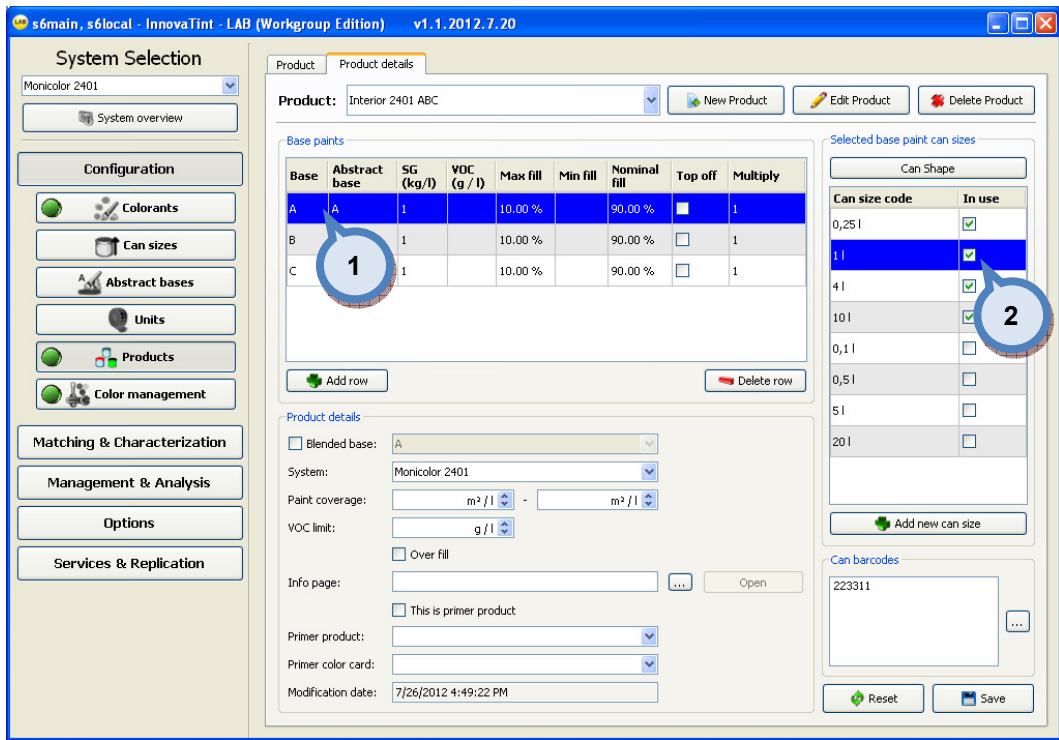
2.5.4 Add a new base paint

To add a new base paint into a product, navigate to the **Product details** tab page of the **Configuration** ⇒ **Products** page.



1. Click the **Add row** button. 
2. Select the **Base** column on the empty row and enter the name or the code of the new base.
3. Select the abstract base to be linked into this base paint from the drop down list in the **Abstract base** column.
4. Enter the density of the base paint into the **SG** column. The unit of the measure is kg/litre.
5. Enter the VOC of the base paint into the **VOC** column. The unit of the measure is grams/litre.
6. Enter the maximum filling level of the base paint in to the **Max fill** column. The unit of the measure is percentage of the total volume of the paint can.
7. Enter the minimum filling level of the base paint in to the **Min fill** column. The unit of the measure is percentage of the total volume of the paint can.
8. Enter the nominal filling level of the base paint in to the **Nominal fill** column. The unit of the measure is percentage of the total volume of the paint can.
9. Enable the **Top off** check box if the total amount of the base paint and the colorants should always be equal to Max fill value.
10. Enter the multiplier number into the **Multiply** column. With this number the base paint volume is multiplied when making the color matching.

Note: Next you can set used can sizes for the base paint.

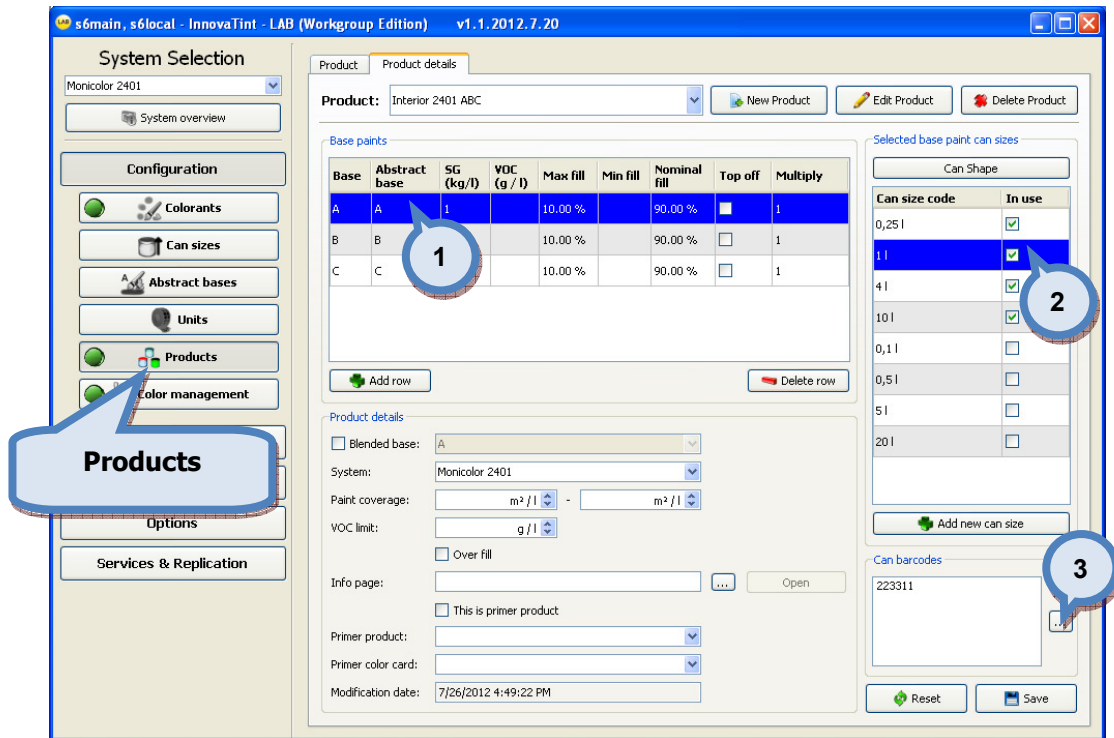



1. Select the **base** paint by clicking the name of the base paint, or any part of the row.
2. Select the used **can size(s)** by enabling the **In use** check box.

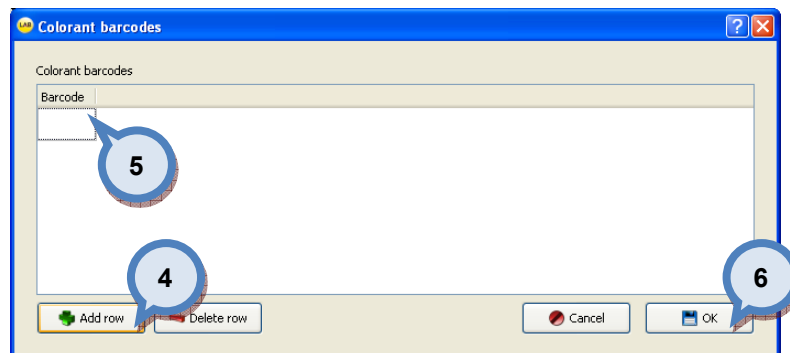
Note: You can add new can sizes by clicking the Add new can size button, or by following the procedure in the section: Add new can size.

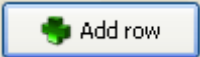
2.5.5 Add a new bar code for base paint can

To add a new bar code for the base paint can, navigate to the **Product details** tab page of the **Configuration** ⇒ **Products** page.



1. Select the **base** paint by clicking the name of the base paint, or any part of the row.
2. Select the **can size** by clicking the name of the can size.
3. Click the  button.



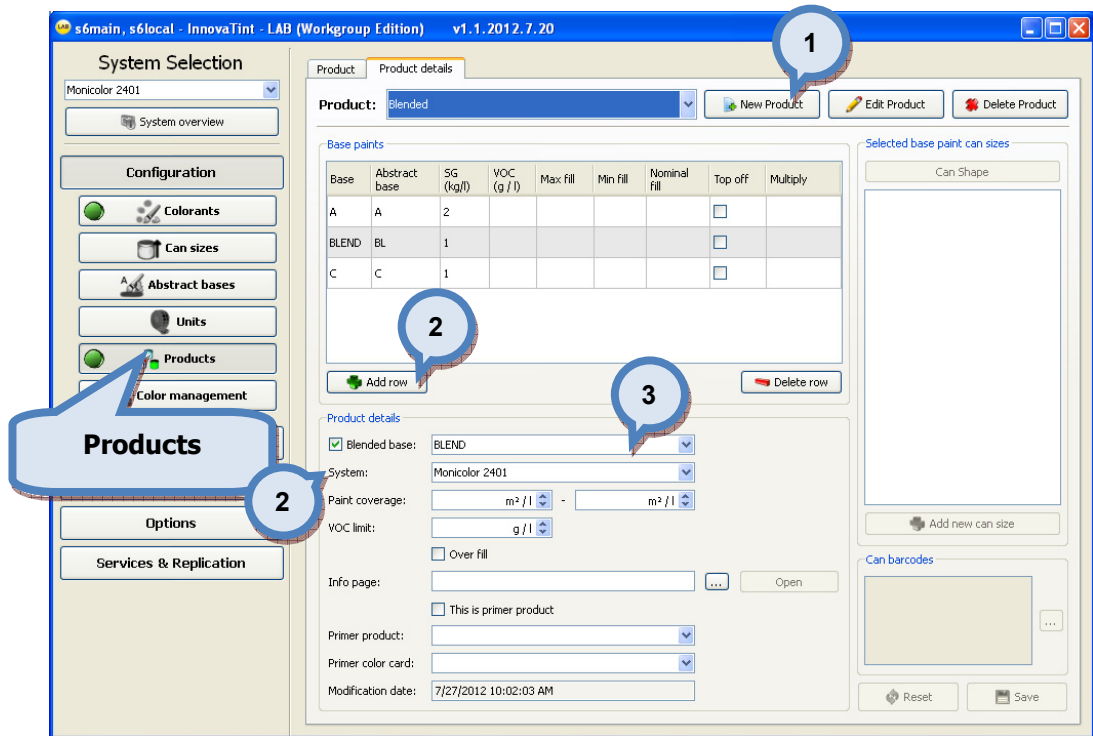
4. Click the **Add row** button to add new row to the table. 

5. Enter **Bar code** to the empty row.

6. Click **OK** button. 

2.5.6 Add a new blended base

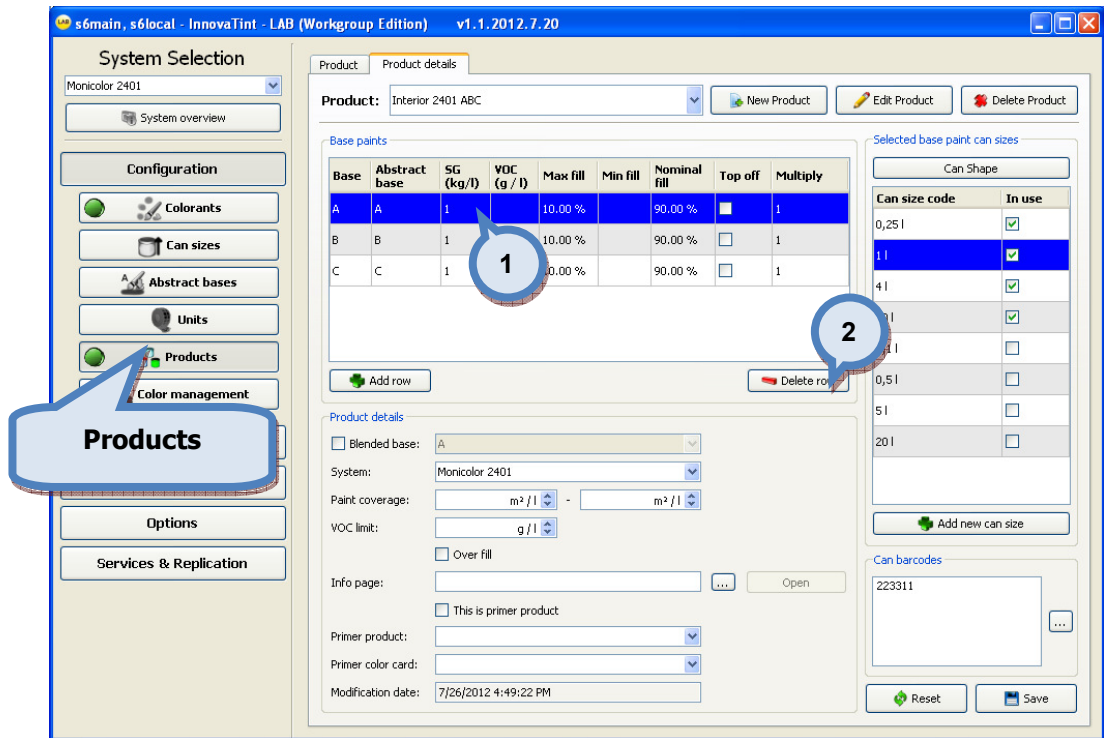
To add a new blended base paint into a product, navigate to the **Product details** tab page of the **Configuration** ⇒ **Products** page.



1. Create a new product as described in the section: Add a new product
2. Create base paints as described in the section: Add a new base paint. Note: the blended base paint should have density (SG) as 1. The real base paints should have the real densities.
3. Enable check box Blended base, and select a blended base from the drop down field.

2.5.7 Delete a base paint

To add a new base paint into a product, navigate to the **Product details** tab page of the **Configuration** ⇒ **Products** page.

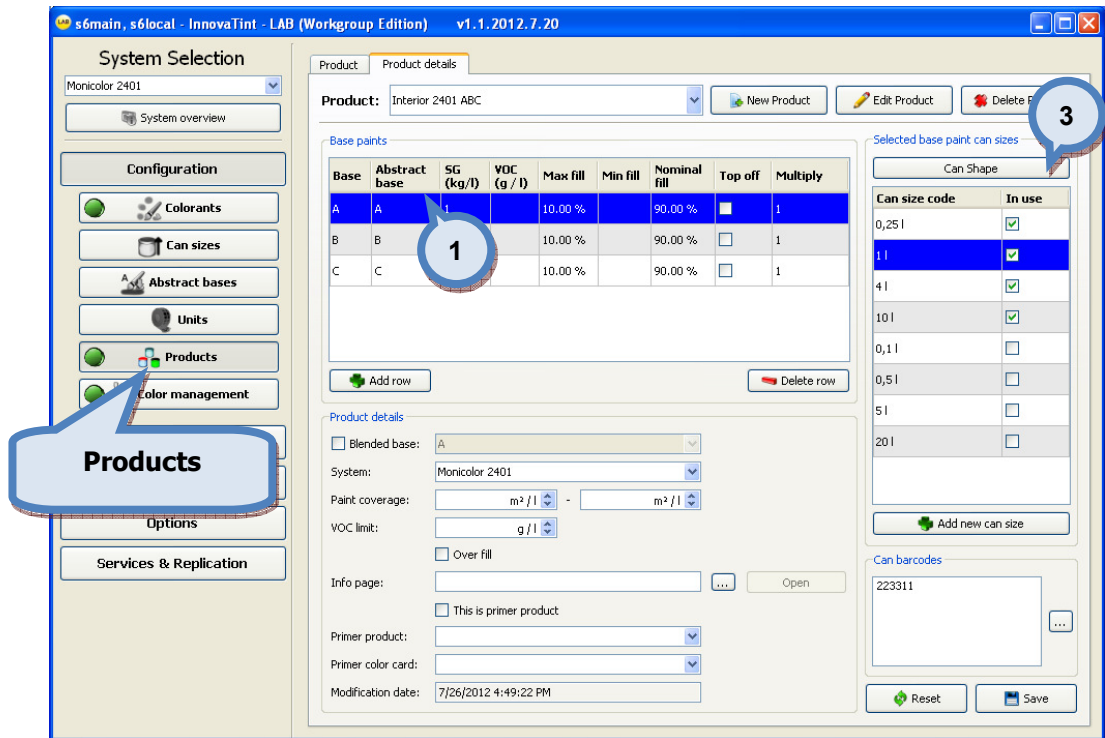


1. Select the **base paint** by clicking the base name or any part of the row.

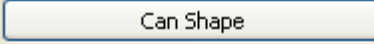
2. Click the **Delete row** button. 

2.5.8 Set a mixing cycle for a paint can

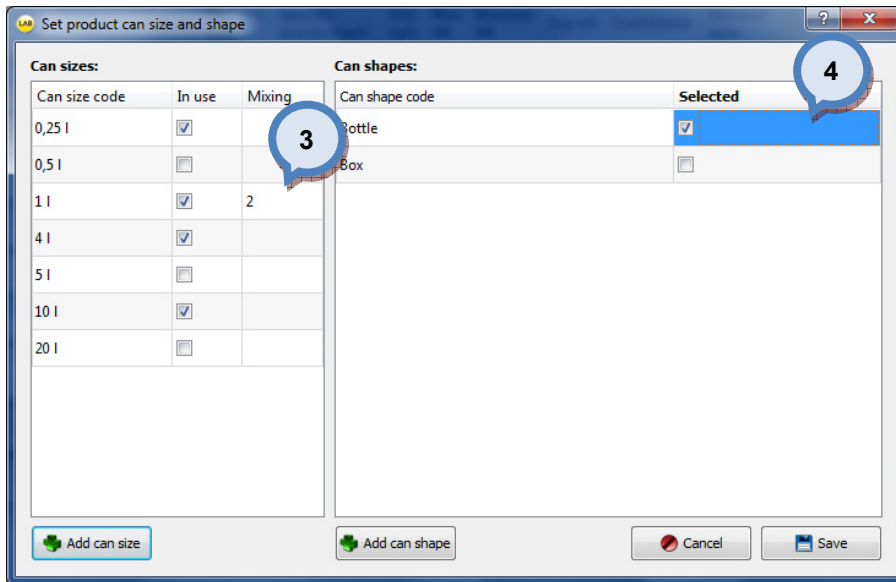
To set a mixing cycle for the base paint can, navigate to the **Product details** tab page of the **Configuration** ⇒ **Products** page.



1. Select the **base paint** by clicking the base name or any part of the row.

2. Click the **Can shape** button . 

Set product can size and shape window opens up.



3. Enter the number of mixing cycles into the **Mixing** column.

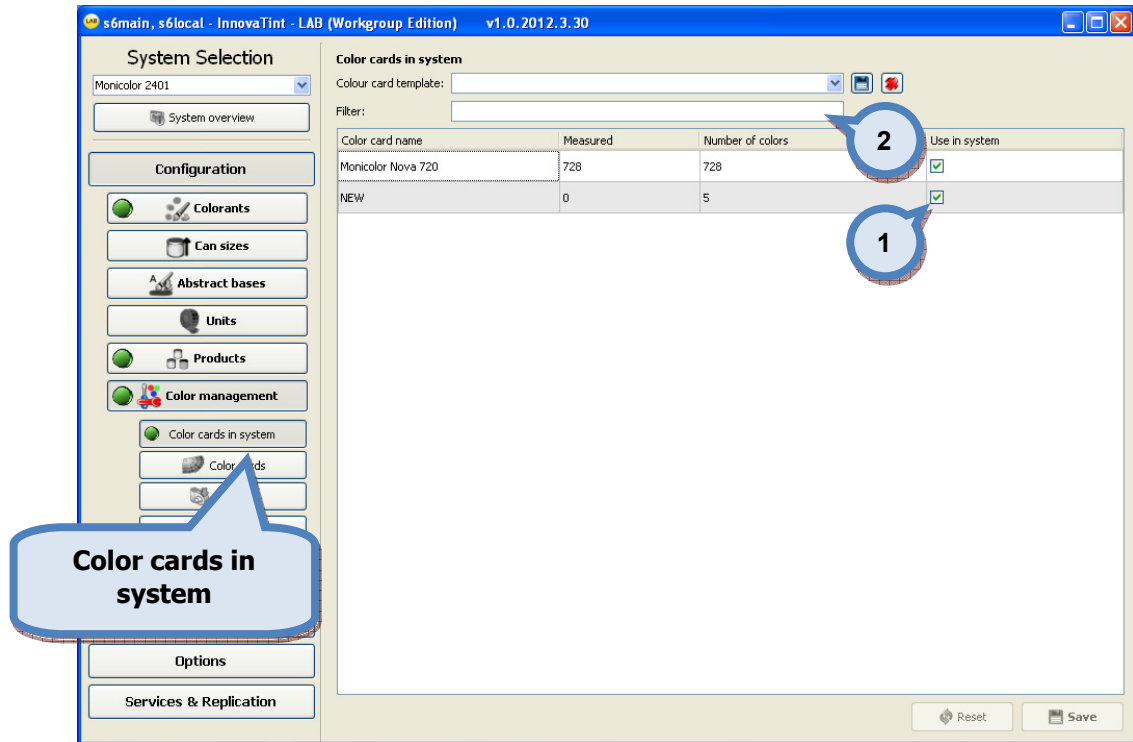
4. Set one of the can shapes as "Selected" by enabling the check box **Selected**.

Note: Mixing cycle for each base paint and can size has to be set separately.

2.6 Color cards

2.6.1 Set the color card to be used in a system

To set a color card to be used in a system, select **Configuration** ⇒ **Color management** ⇒ **Color cards in system** page.

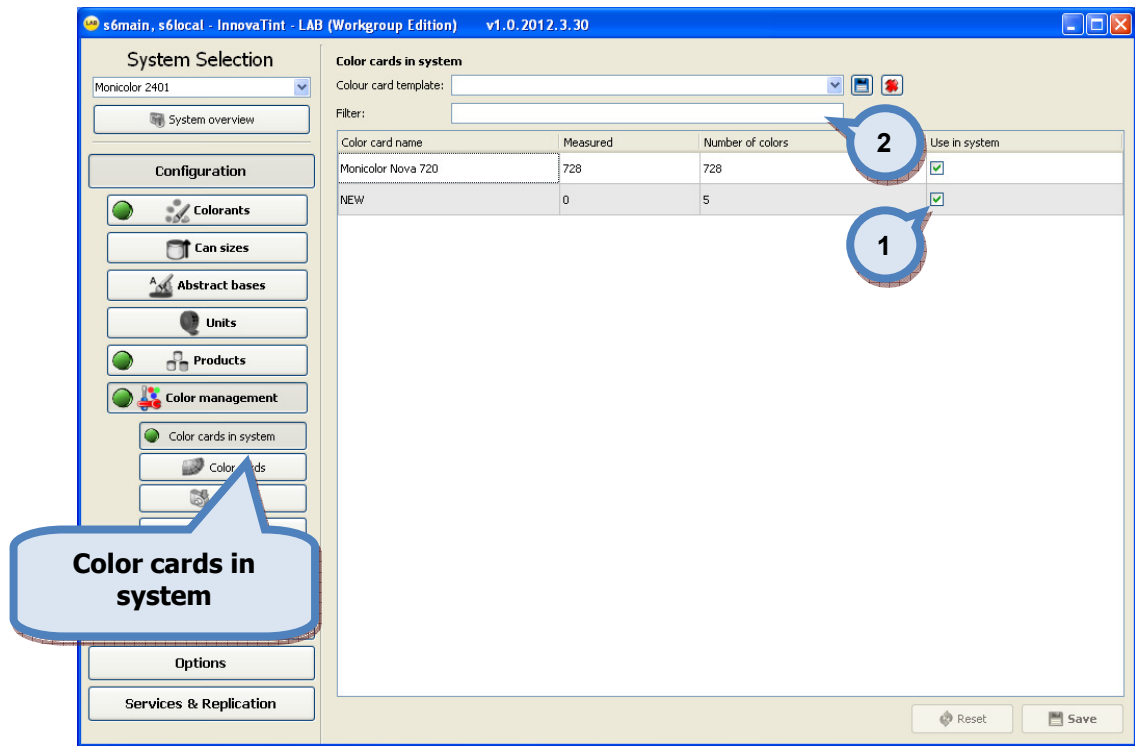


1.Enable the check box **Use in system**.

Note: You can use **Filter** field to search a color card by typing the name or the part of the name into to the filter field (2).

2.6.2 Remove the color card from the system

To set a color card to be used in a system, select Configuration ⇒ **Color management** ⇒ **Color cards in system**

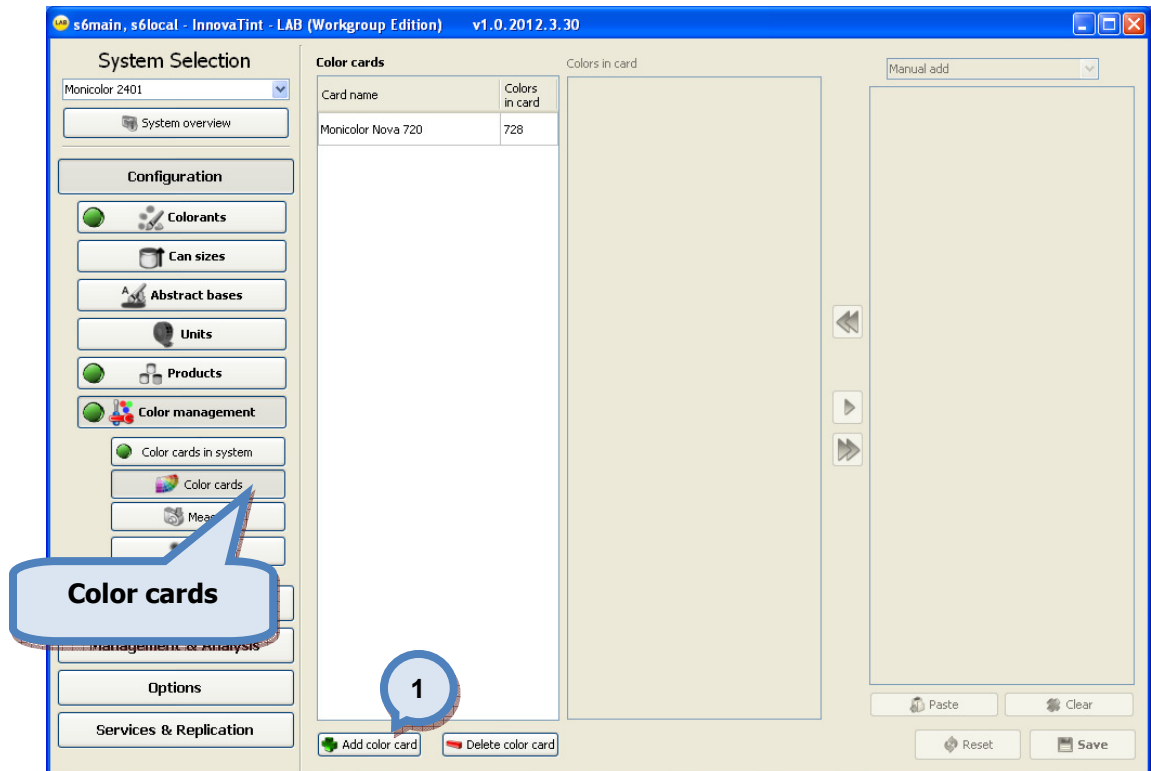


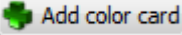
1. Unable the check box **Use in system**

Note: You can use **Filter** field to search a color card by typing in the name or the part of the name into to the filter field (2).

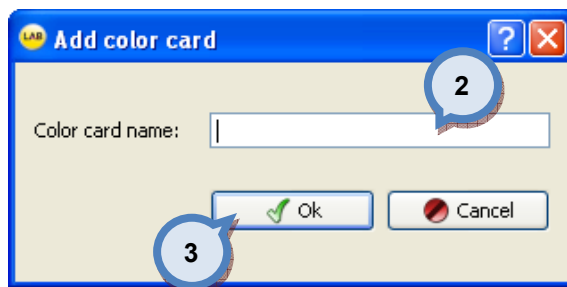
2.6.3 Add a new color card

To add a new color card, navigate into the **Configuration** ⇒ **Color management** ⇒ **Color cards** page.



1. Click **Add color card** button 

Add color card window opens up.



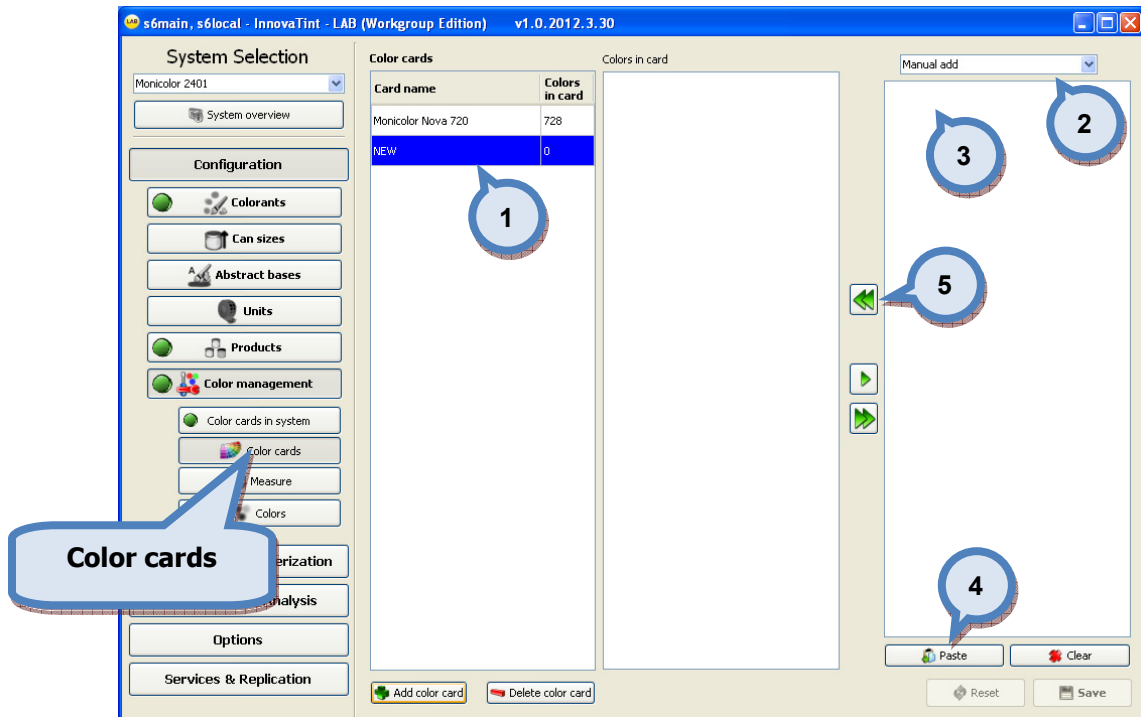
2. Enter the name of the color card into the **Color card name** text box.

3. Click the **Ok** button. 

Note: After this you need to add the colors (the color names) into your color card.

2.6.4 Add a new color code into the color card

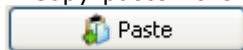
To add a new color code into the color card, navigate into the **Configuration** ⇒ **Color management** ⇒ **Color cards** page.




1. Select the **Color card** by clicking the color card name or any part of the row.
2. Select **Manual add** from the drop down list.
3. Place the mouse cursor into the text field and enter the color codes by typing the codes manually into this text field

OR

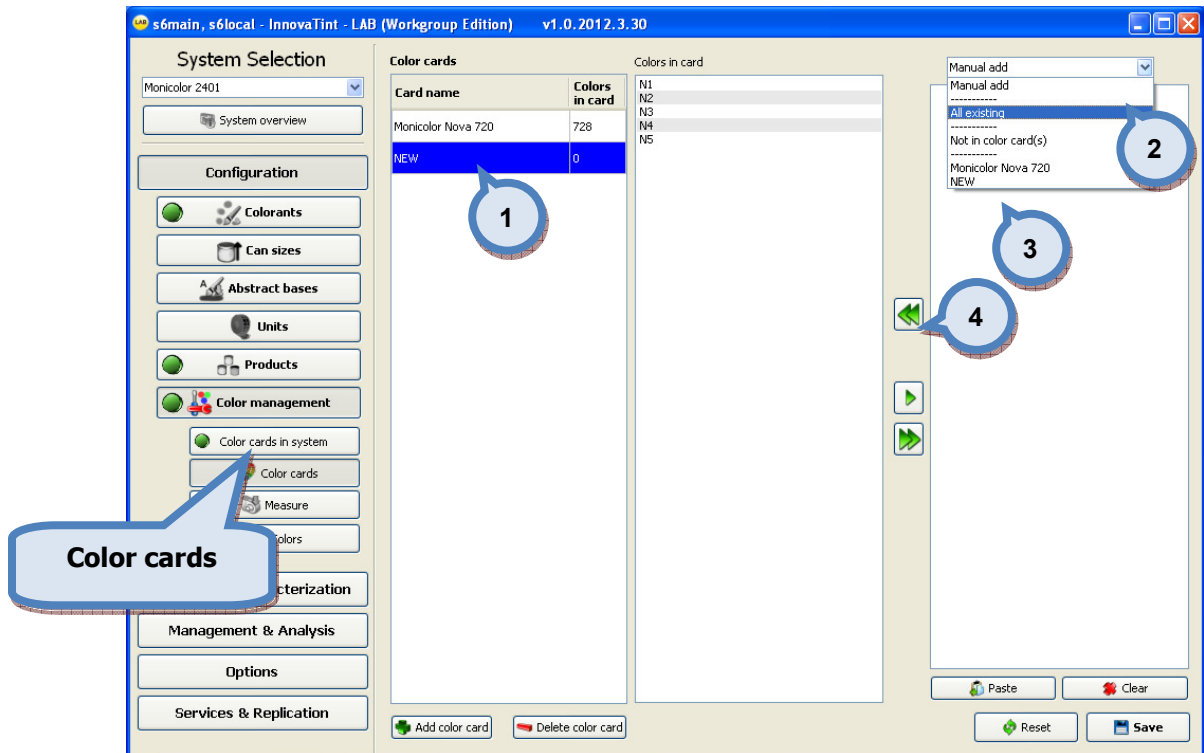
4. Copy-paste the list of codes from the clipboard by clicking the **Paste** button.



5. Click the **Double arrow**  button to add the color names in the text field (3) into the color card.

2.6.5 Add an existing color code into the color card

To add an existing color code into the color card, navigate into the **Configuration** ⇒ **Color management** ⇒ **Color cards** page.



1.Select the **Color card** by clicking the color card name or any part of the row.

2.Select **All existing, Not in color card(s), or any of the existing color cards** from the drop down list. Based on you selection, the corresponding color names are showed on the text field (3).

3.Select one color code by clicking the color code with the left mouse button or select multiple color names by pressing the Ctrl key down while selecting the color names with the left mouse button.

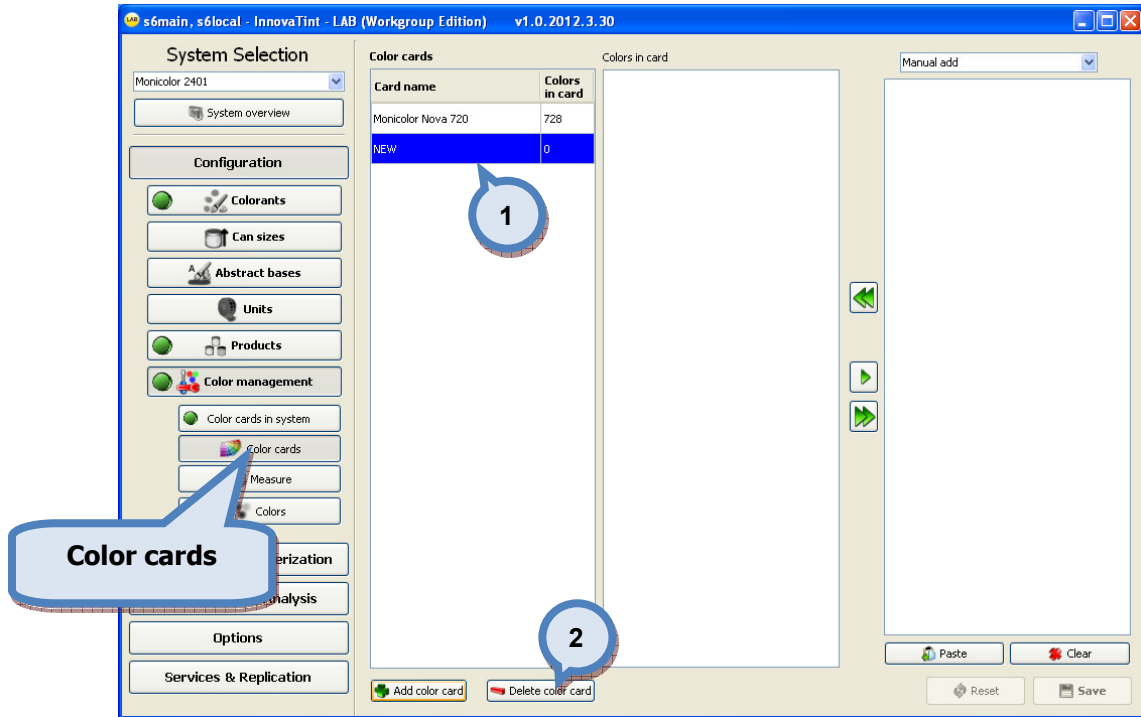
4.Click the **Double arrow**



button to add the highlighted color names in the text field (3) into the color card.

2.6.6 Delete a color card

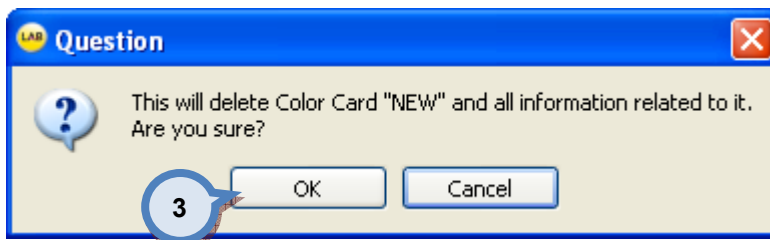
To delete an existing color card, navigate into the **Configuration** ⇒ **Color management** ⇒ **Color cards** page.



1. Select the color card from **Color cards** list by clicking the color card name or any part of the row.

2. Click the **Delete color card** button.

The **Question** window opens up:

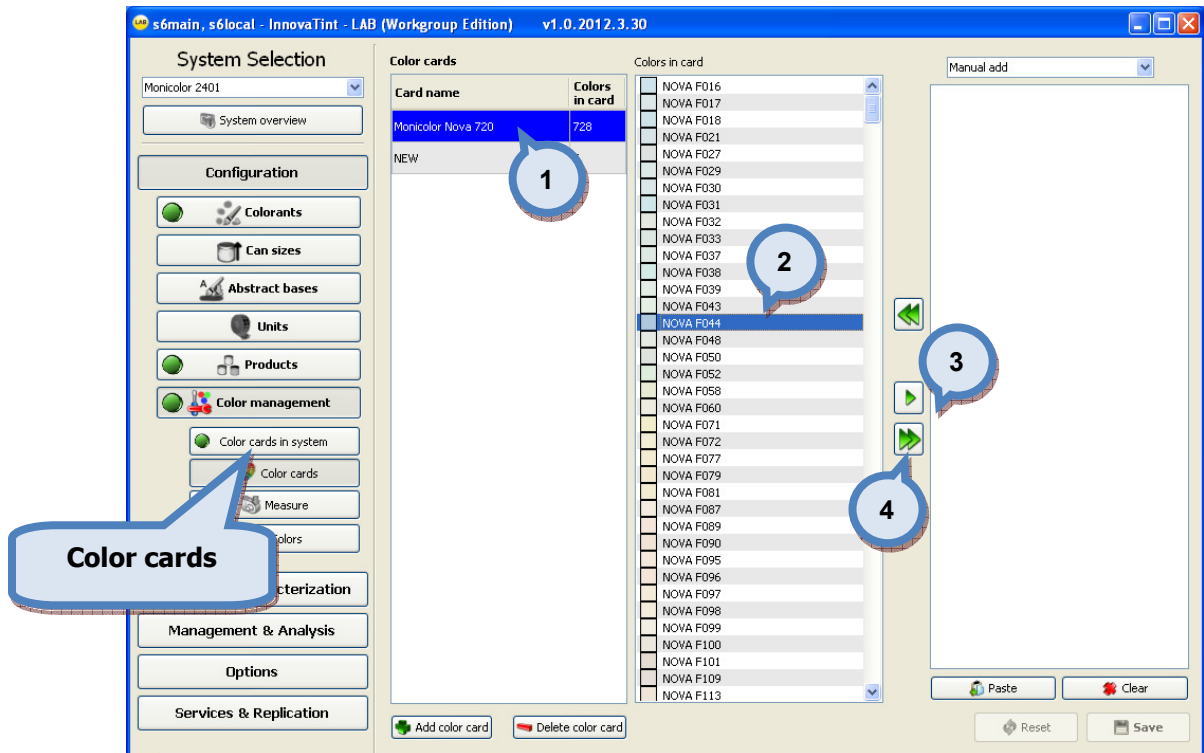


3. Confirm delete of the color card by clicking **Ok** button

Note: When deleting the color card, also all of the data related to the color card is deleted. This includes all of the color formula with the color codes from this color card.


2.6.7 Delete a color code from the color card

To delete an existing color code from the color card, navigate into the **Configuration** ⇒ **Color management** ⇒ **Color cards** page.




1. Select the color card from **Color cards** list by clicking the color card name or any part of the row.

2. Select one or more of the color codes from the list (2) with the left mouse button (press Ctrl button down for multiple selections).

3. Click the **Single arrow** button to remove selected color codes from the color card. 

OR

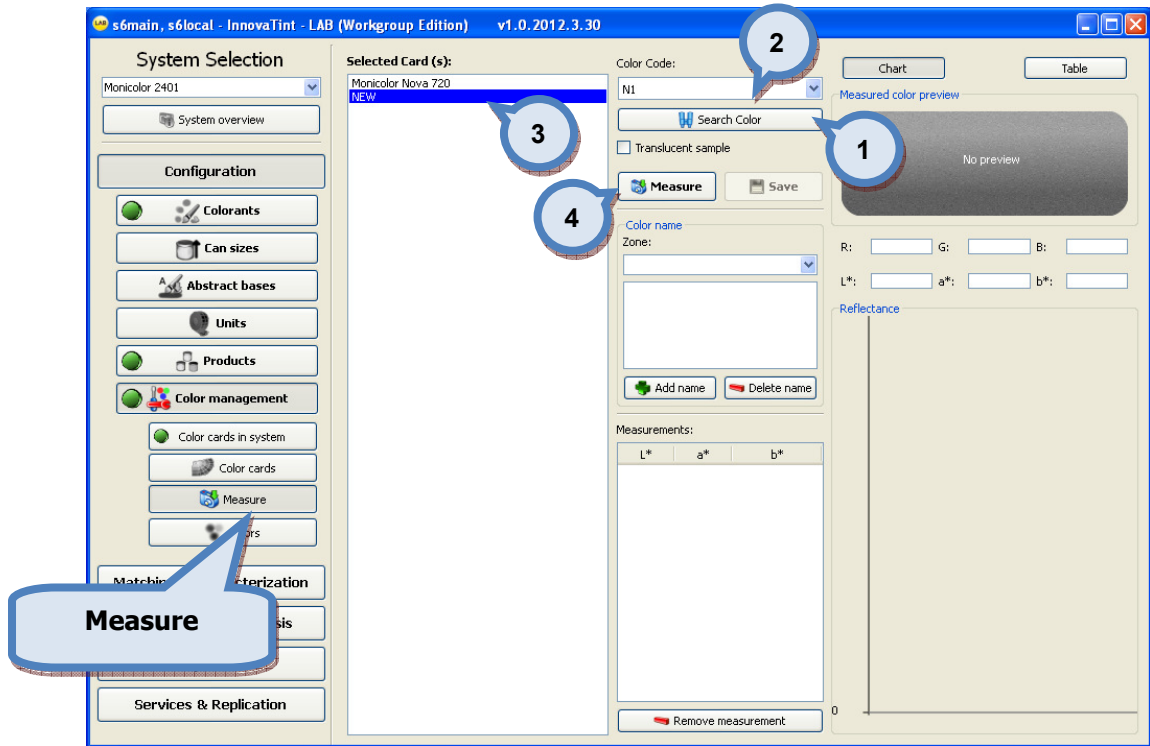
4. Click the **Double arrow** button to remove all of the color codes from the color card. 

Note: When deleting the color codes from the color card, all of the data related to the color is also deleted. This includes all formula with this color code.

2.7 Measure

2.7.1 Measure an opaque color into the color card

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



1. Click the Search color button to show all non-measured colors in the drop down box (2).



2. Select color code from the Color code drop down box.

Note: You can narrow down the list of the color codes in the list (2) by selecting a color card from the list (3).



4. Click the **Measure** button.

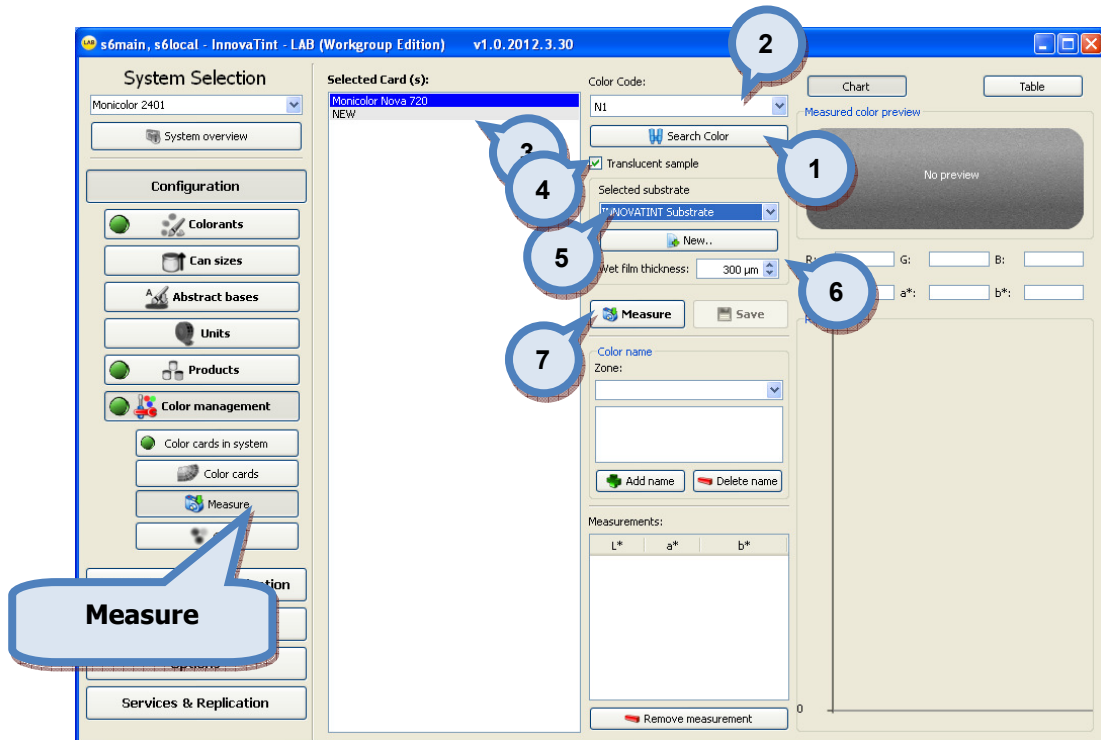
Note: If the spectrophotometer is not installed, this software will ask you to do so first. Please follow the instructions on the spectrophotometer installation in the section: 5.3.1 Install a spectrophotometer.

Note: If the spectrophotometer is not calibrated, this software will ask you to do so first. Please follow the instructions on the spectrophotometer calibration in the section: 5.3.2 Calibrate a spectrophotometer.

5. Follow the on screen instructions of the measurement process.

2.7.2 Measure a translucent color into the color card

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



1. Click the Search color button to show all non-measured colors in the drop down box (2).



2. Select color code from the Color code drop down box.

Note: You can narrow down the list of the color codes in the list (2) by selecting a color card from the list (3).

4. Enable the **Translucent sample** check box.

5. Select the substrate used in the draw downs from the **Selected substrate** drop down list

Note: If your substrate is not in the list, you can measure a new substrate by following the instructions on the section: Measure a new substrate.

6. Enter size of the draw down bar used in to the text field **Wet film thickness**. The unit of measure is μm .



7. Click the **Measure** button.

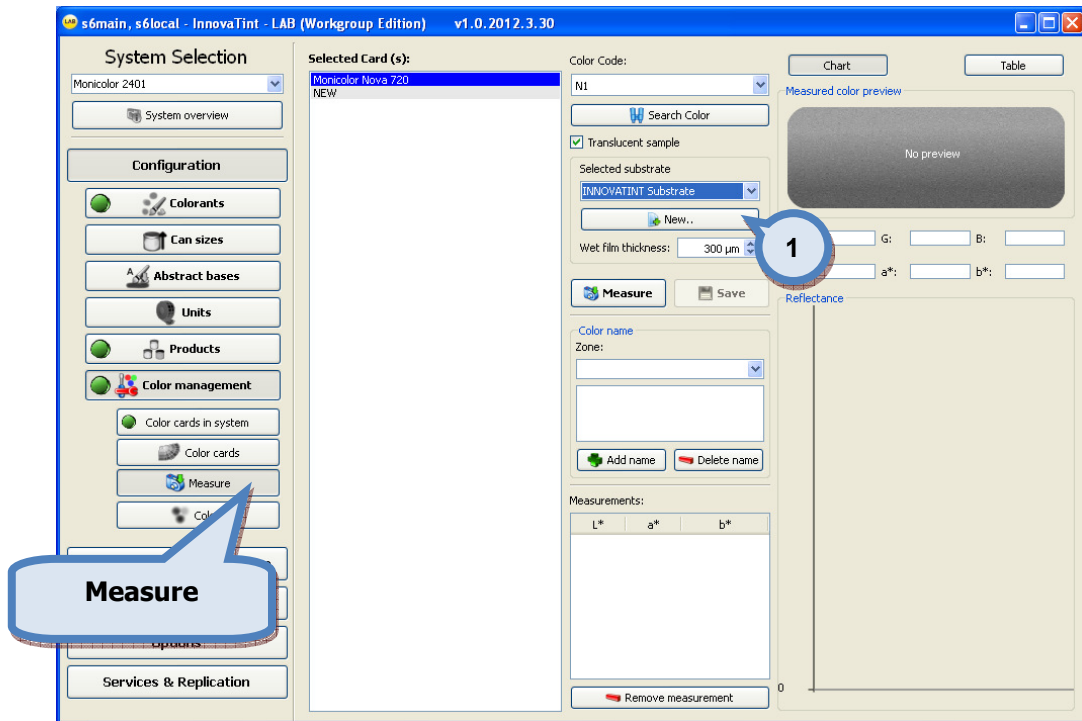
Note: If the spectrophotometer is not installed, this software will ask you to do so first. Please follow the instructions on the spectrophotometer installation in the section: 5.3.1 Install a spectrophotometer.

Note: If the spectrophotometer is not calibrated, this software will ask you to do so first. Please follow the instructions on the spectrophotometer calibration in the section: 5.3.2 Calibrate a spectrophotometer.

8. Follow the on screen instructions of the measurement process.

2.7.3 Measure a new substrate

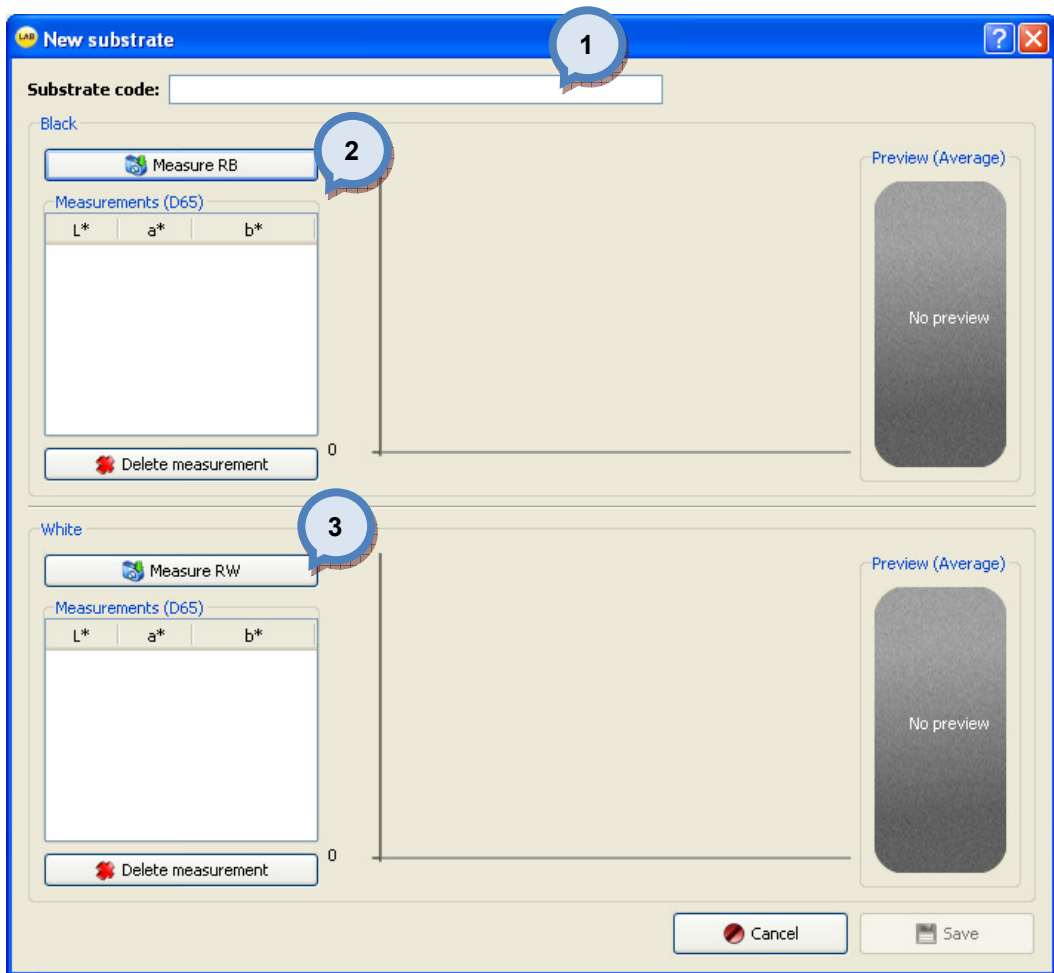
To measure a new substrate, navigate to the **Configuration** ⇒ **Color management** ⇒ **Measure** page.



1. Click **New** button

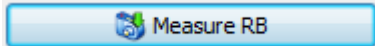


The **New substrate** window opens up:



1.Enter the **Substrate code**.

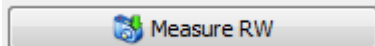
2.Click the **Measure RB** button to measure over the black substrate.



Note: If the spectrophotometer is not installed, this software will ask you to do so first. Please follow the instructions on the spectrophotometer installation in the section: 5.3.1 Install a spectrophotometer.

Note: If the spectrophotometer is not calibrated, this software will ask you to do so first. Please follow the instructions on the spectrophotometer calibration in the section: 5.3.2 Calibrate a spectrophotometer.

3.Click the **Measure RW** button to measure over the white substrate.

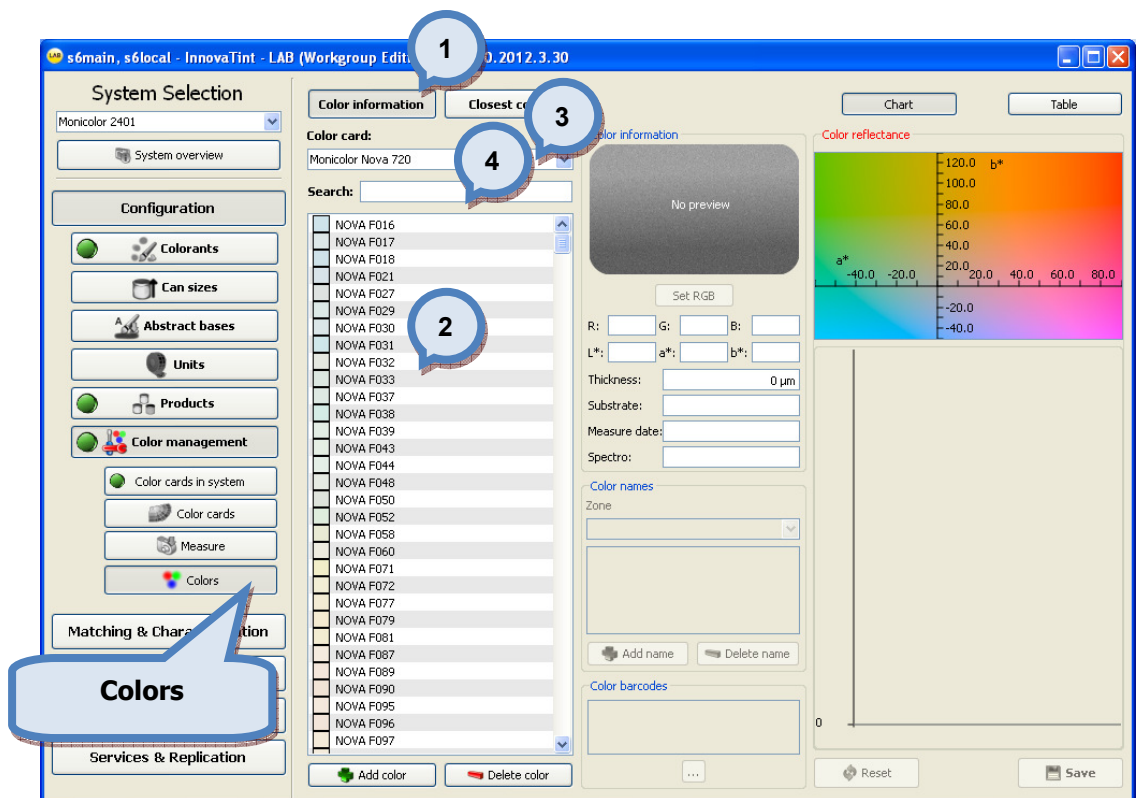


2.8 Colors

You have 2 options for color search: you can either search a color by its code from color card, or you can search closest color from color cards.

2.8.1 Search a color from a color card

To search the colors measured in to the color cards, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.



1. Click **Color information** button (this is default when entering into this page).



2. Manually search the color code from color list.

OR

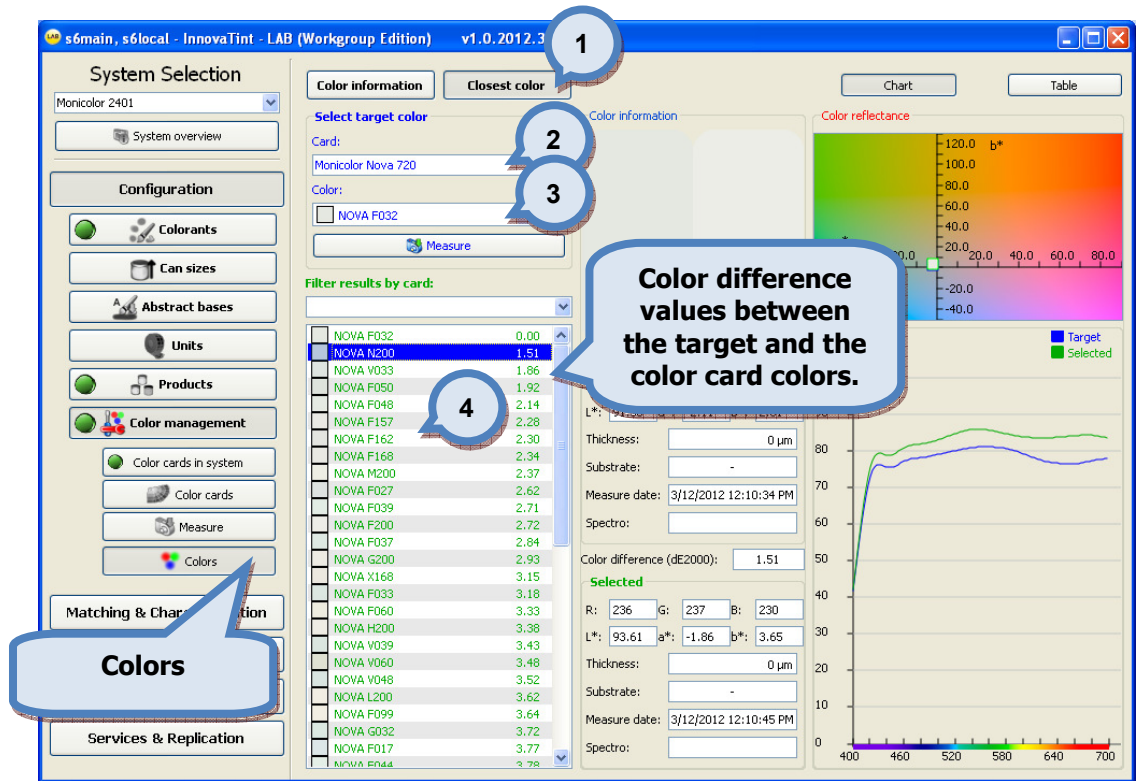
3. Select a color card from the **Color card** drop down list and manually search the color code from color list (2).

OR

4. Type in the color code or any part of the code in to the Search text field and manually search the color code from color list (2).

2.8.2 Search a closest color from the color card to match the other color in the color card

To search the closest color from the color card to match the other color card, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.

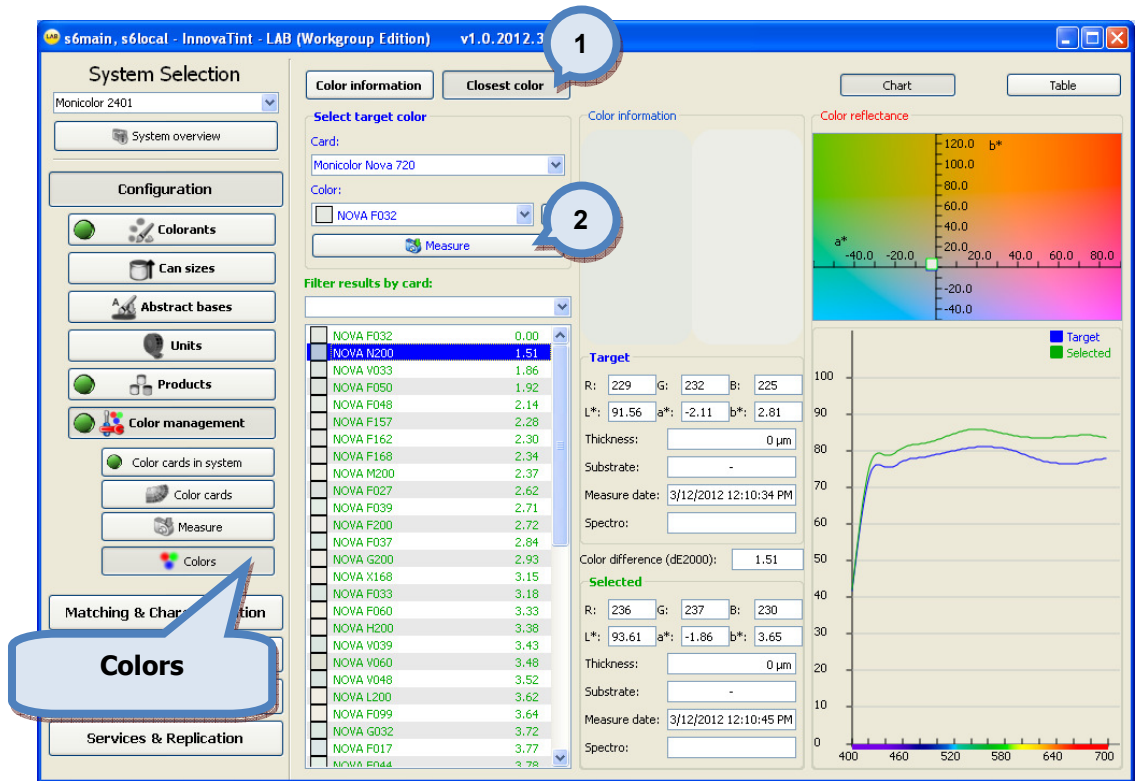


Closest color

1. Click the **Closest color** button.
 2. Select the color card from the **Color card** drop down list.
 3. Select color code the from **Color code** drop down list.
 4. Colors measured into to the database are displayed on the list.
- Note:** Your target color is on the first row of the list, with the color difference value of 0.00.

2.8.3 Search a closest color from the color card to match the measured color

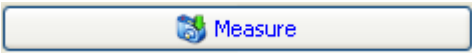
To search the closest color from the color card to match the measured color, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.



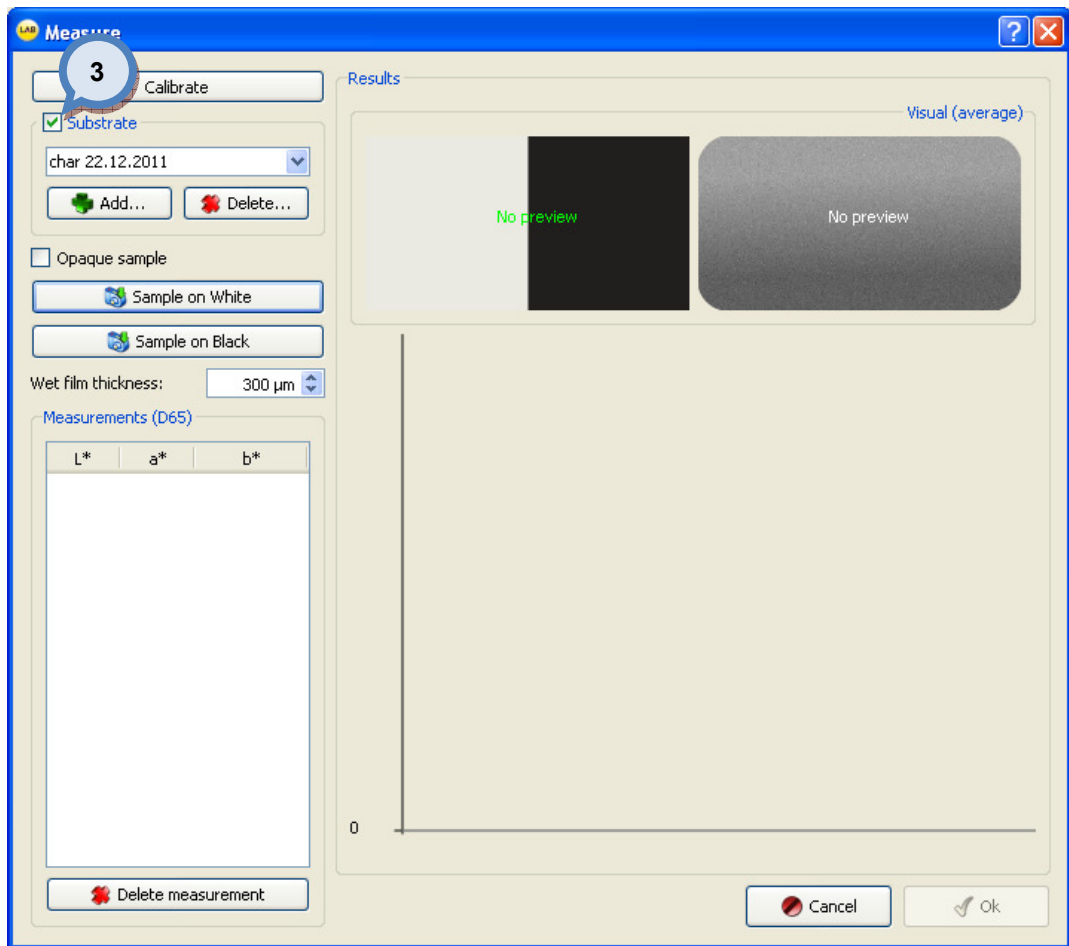
1. Click the **Closest color** button.



2. Click the **Measure** button to measure your sample.



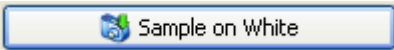
The measure window opens up.




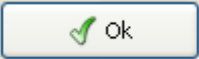
3. Enable the **Substrate** check box to activate the page options.

4. Select **substrate** from the drop down list, or add a new substrate by clicking the Add button. To add a new substrate, follow the instruction in the section 2.7.3 Add a new substrate.

5. Enable the **Opaque sample** check box if the drawdown is fully hiding. Otherwise measurement over white and the black substrate is needed.

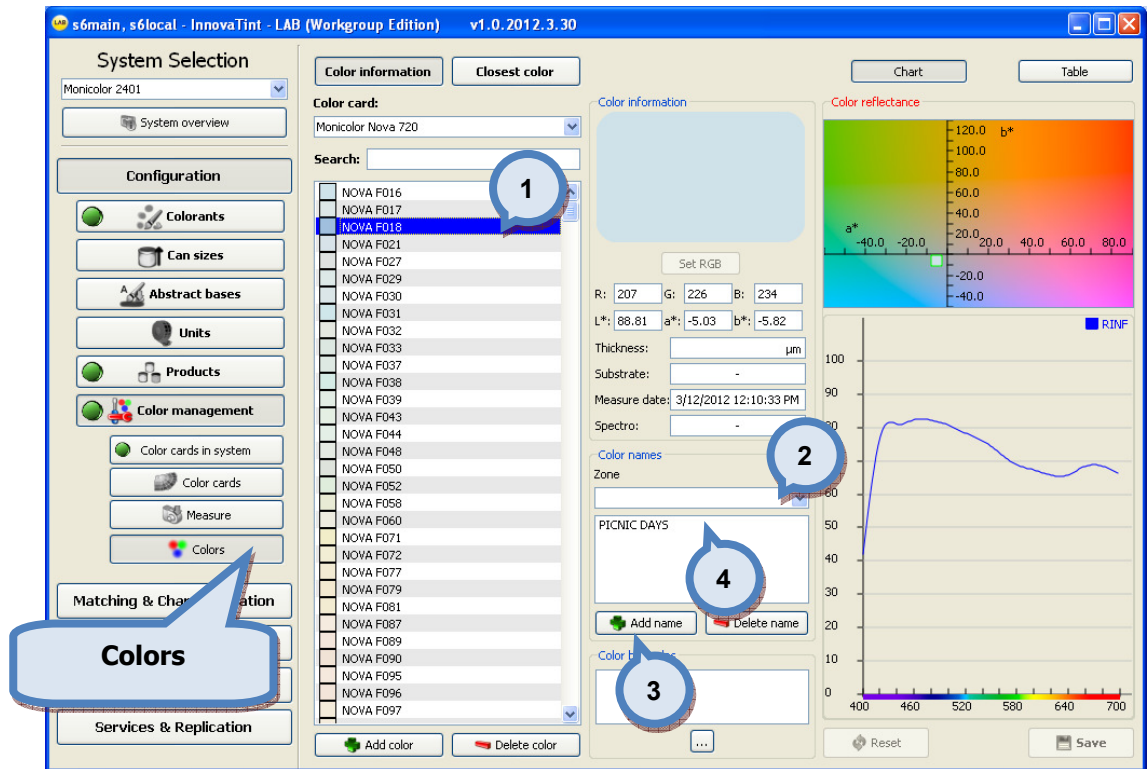
6. Click the **Sample on White** button  to measure the color over the white section of the drawdown paper.

7. Click the **Sample on Black** button  to measure the color over the black section of the drawdown paper. (Only valid for translucent colors, i.e. Opaque sample check box is not enabled).

8. Click **Ok** button  to return back to the main page to view the results.


2.8.4 Add a new color name for a color code in a color card

To add a new name for the colors measured in color cards, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.



1. Search and Select a **color code**.

2. Select a **Zone** from drop down list you wish to enter the name for or leave Zone selector it blank if name is used when zone is not selected.

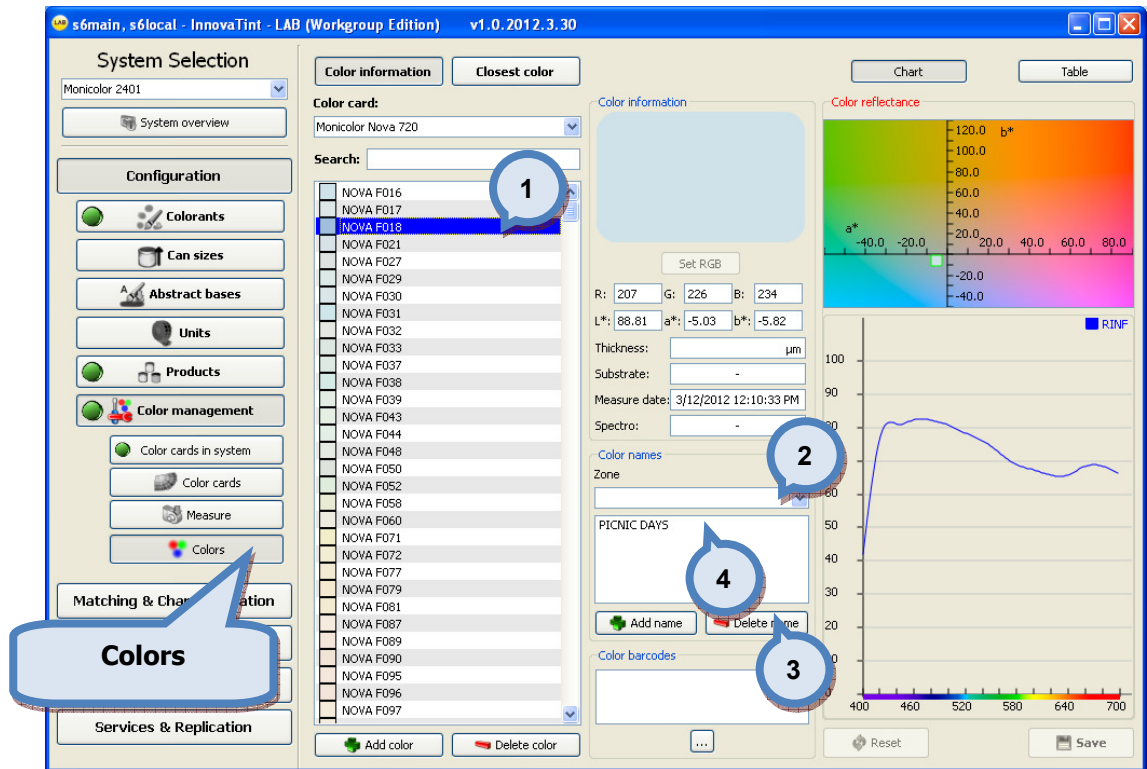
3. Click the **Add name** button. 

4. Enter the **name** for color in to the text field.

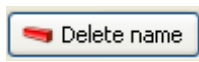
Note: Same color can have multiple names, and also same color have different name in the different zones.

2.8.5 Delete a color name

To delete a color name, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.

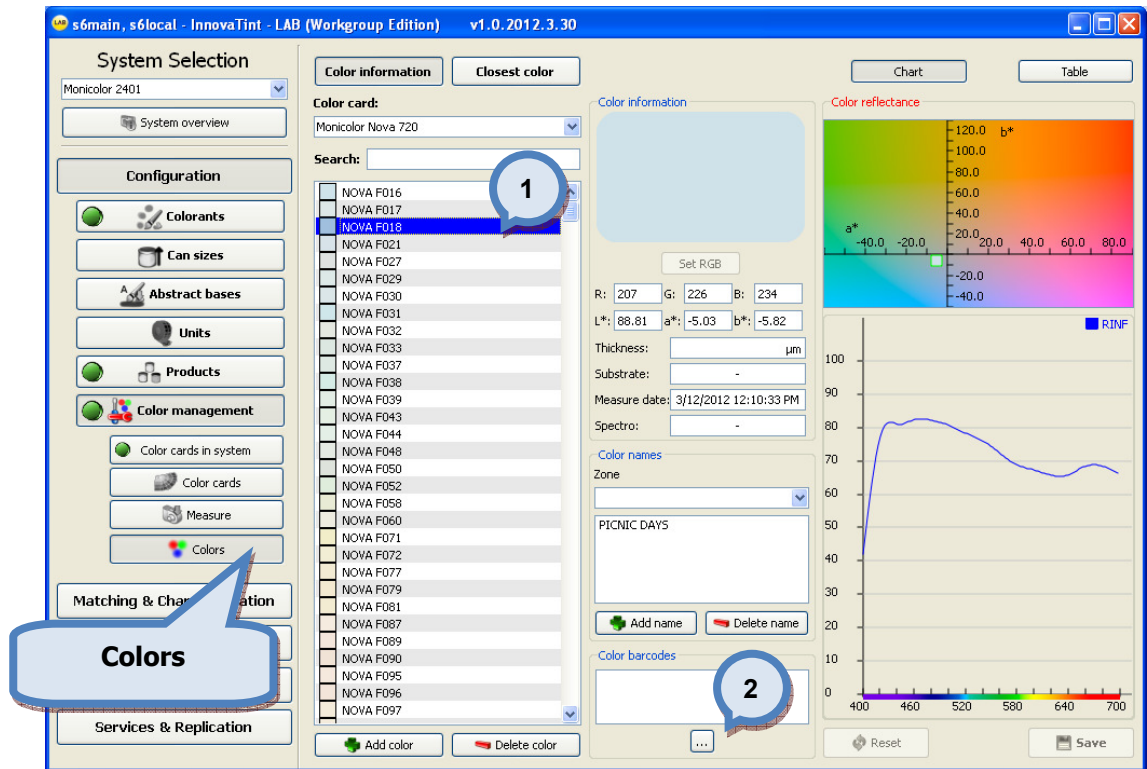


1. Search and Select a **color code**.
2. Leave **Zone** selector blank to display all of the zone names.
3. Select the **name** from the list.
4. Click the **Delete name** button.



2.8.6 Add a bar code for a color in a color card

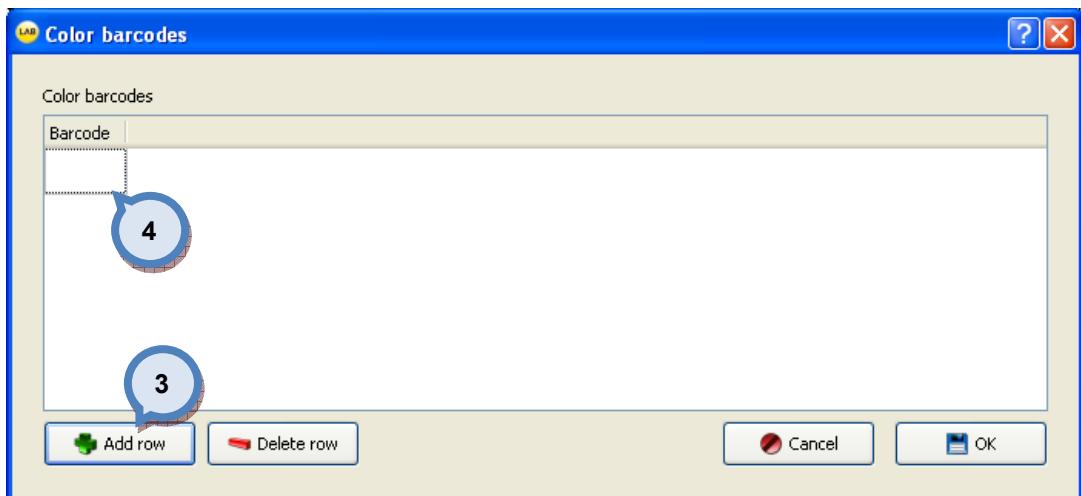
To add a bar code for the color, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.



1. Search and select a **color** from the color card.

2. Click the  button.

The **Color barcodes** window opens up:

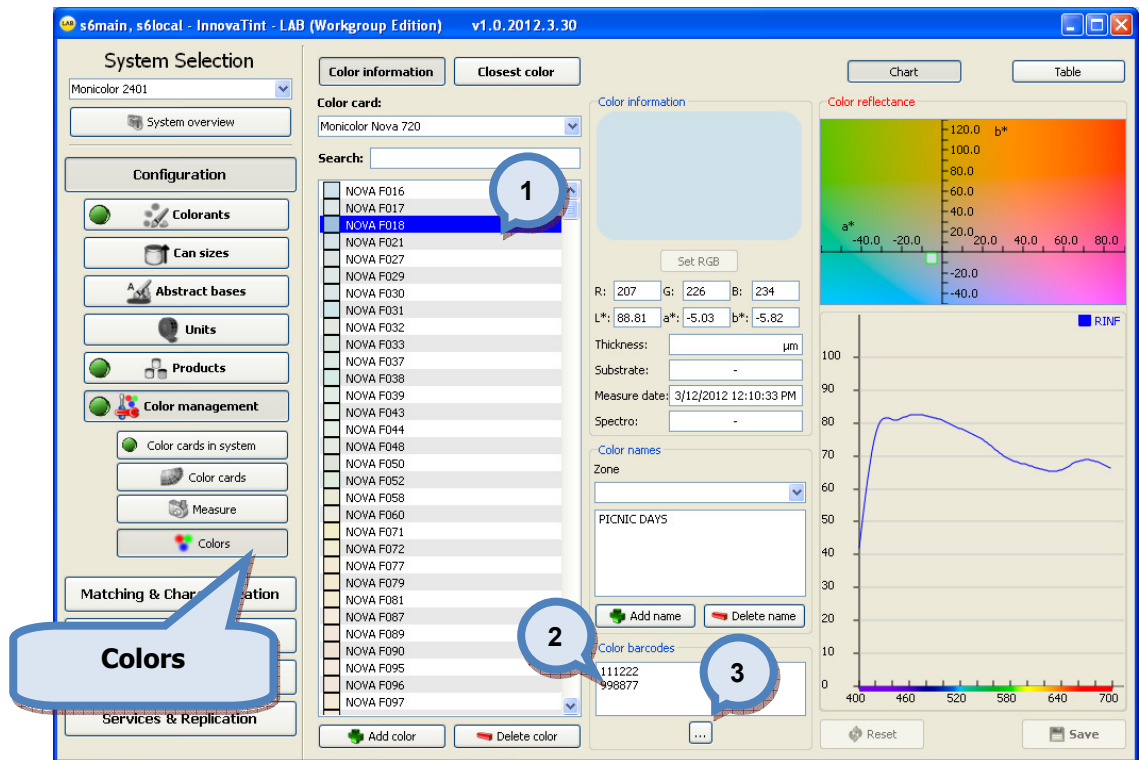


3. Click the **Add row** button.

4. Enter the **bar code** code for the color into first empty row.

2.8.7 Delete a bar code for a color in a color card

To delete a bar code for the color, navigate into the **Configuration** ⇒ **Color management** ⇒ **Colors** page.



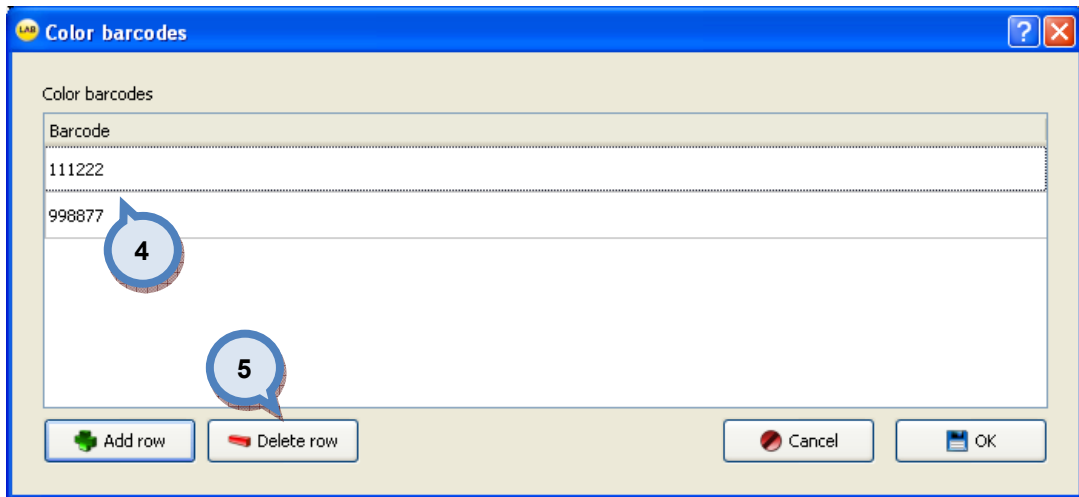
1. Search and select a **color** from the color card.

2. Select the **bar code** from the list and click **Delete** button on your keyboard.

OR

3. Click the  button.

The **Color barcodes** window opens up:



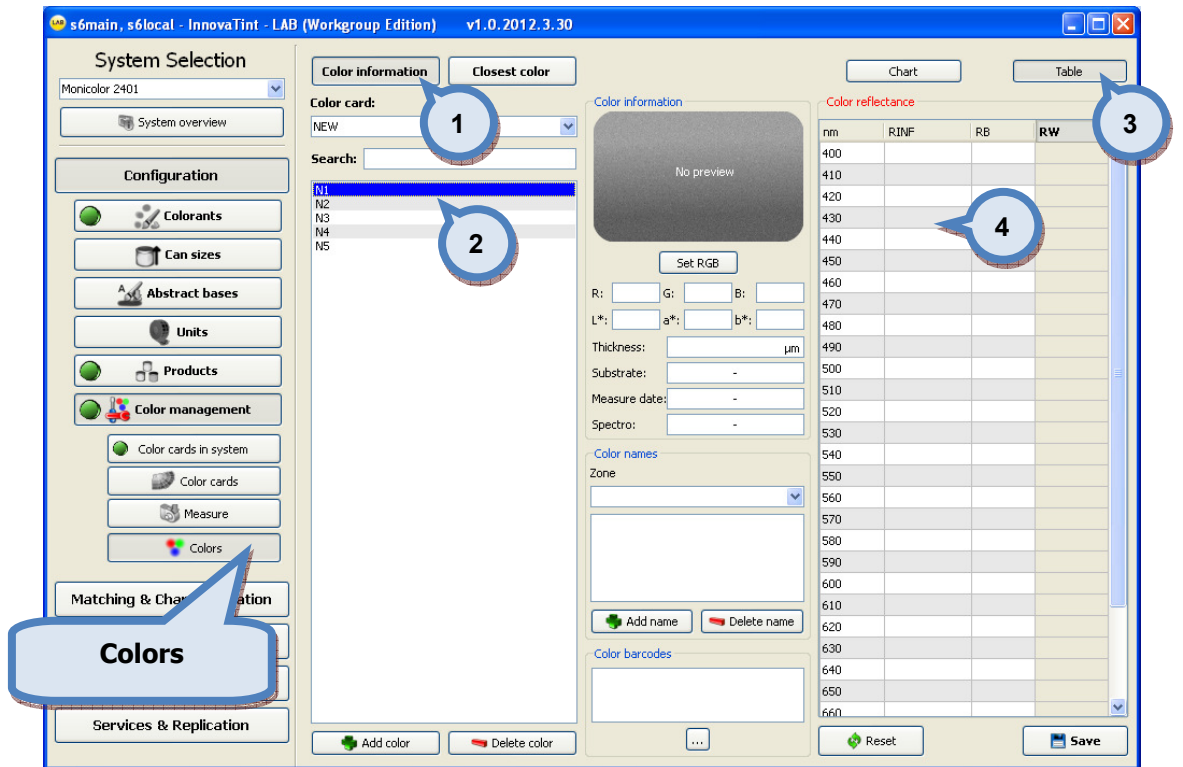
4.Select the **Bar code** from the list.

5.Click the **Delete row** button.

NOTE: Bar codes are not Zone specific.

2.8.8 Add the reflectance values manually for a color

To add the reflectance values manually for the colors, select **Configuration** ⇒ **Color management** ⇒ **Colors**



1. Click **Color information** button (this is default when entering into this page).



1. Search and select a **color** code from list.

2. Click the **Table** button.

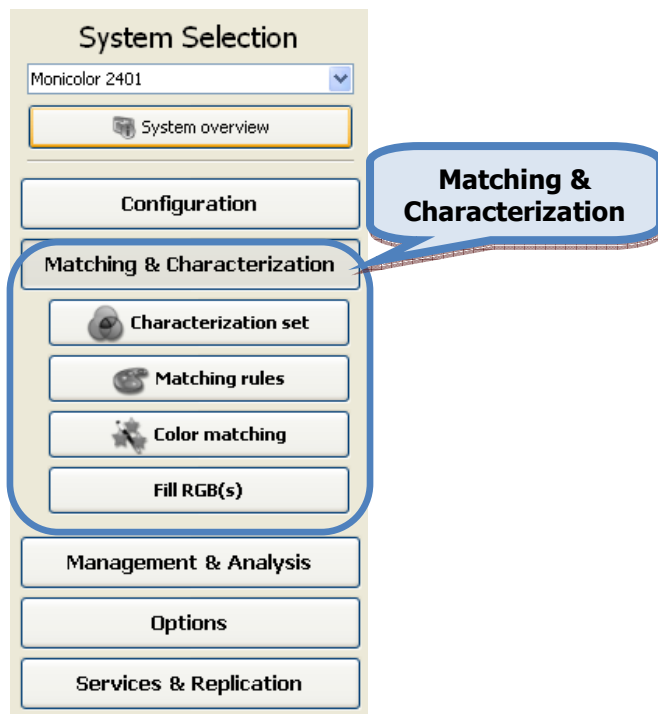


3. Type in the **reflectance values** into RINF column

3 Matching & Characterization

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

- Create characterization set
- Set matching rules
- Match colors

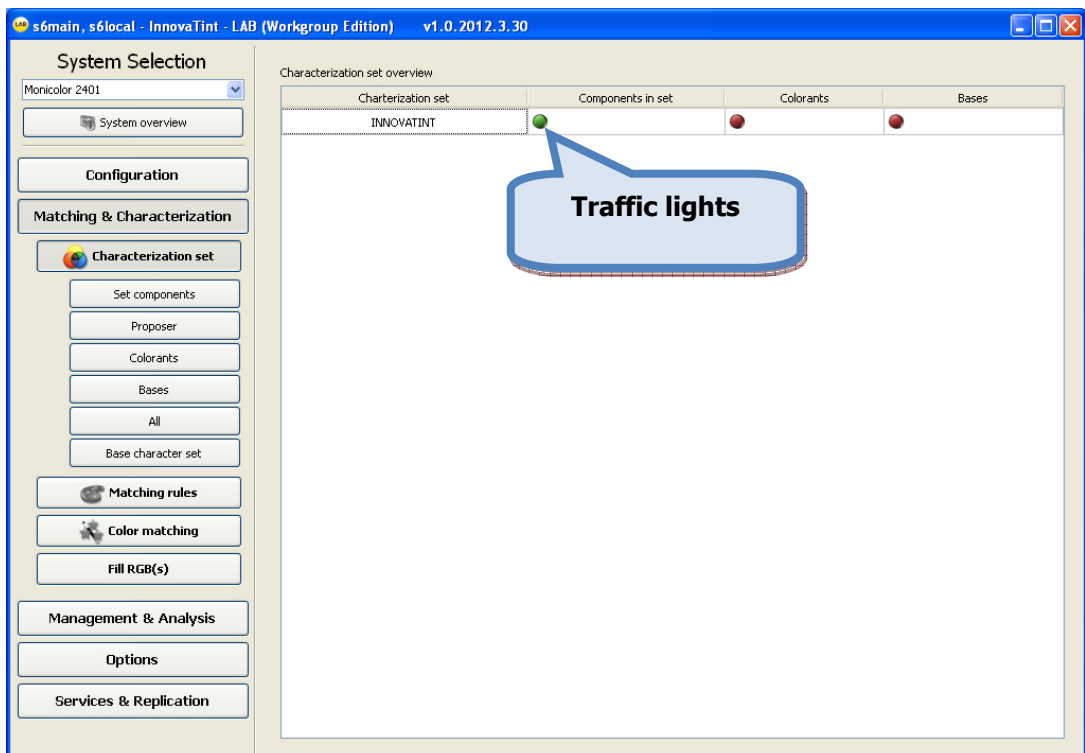


3.1 Characterization set status

To view Characterization set status, navigate into the **Matching & Characterization** ⇒ **Characterization set** page.

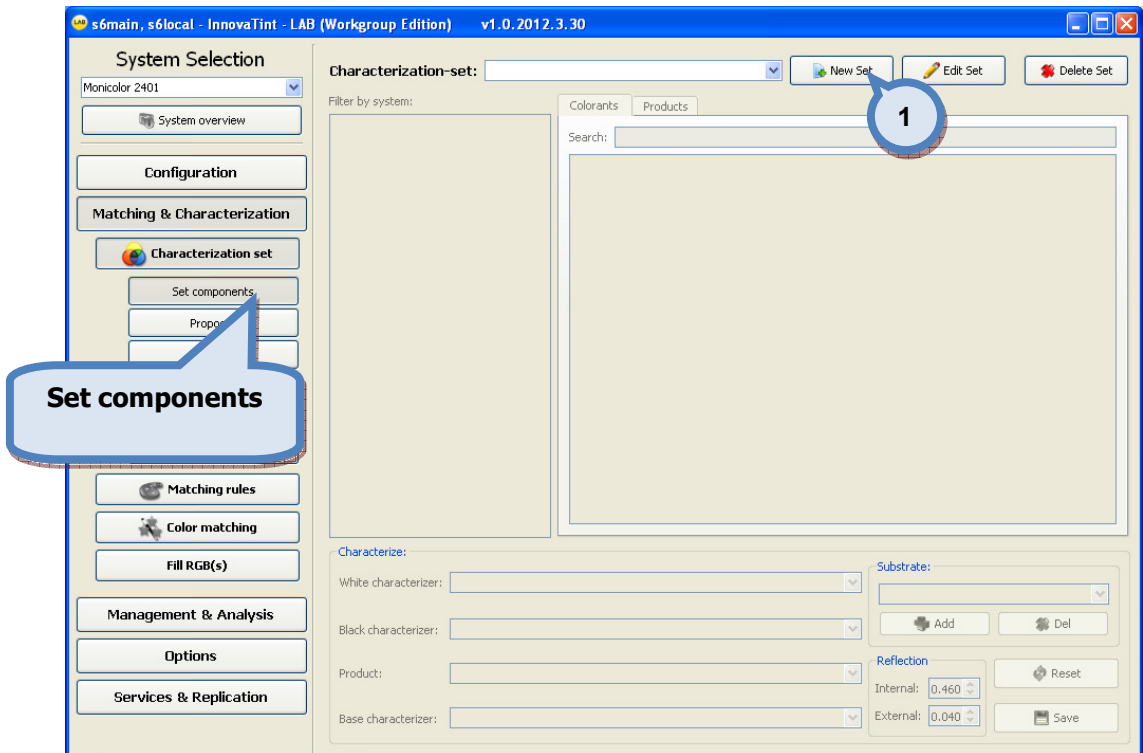
With “traffic light” symbols, you can easily see which components are completed and which still need further work, in order to get matching fully working.

When the symbol is green ● that component of the characterization set is characterized properly, and when the symbol is red ●, some or all of the data is missing for that characterization component.



3.1.1 Create a new characterization set

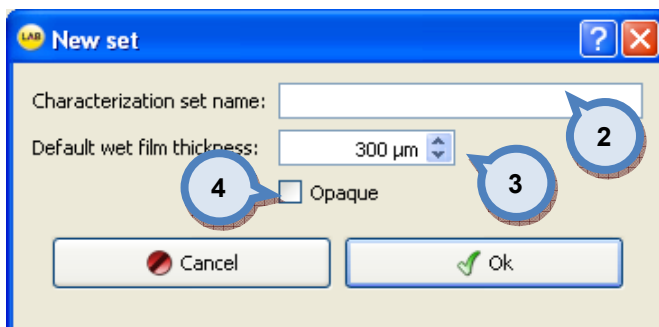
To create a new characterization set, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Set components** page.



1. Click the **New set** button.



The **New set** window opens up:



2. Enter the name for the new set into the **Characterization set name** text field.

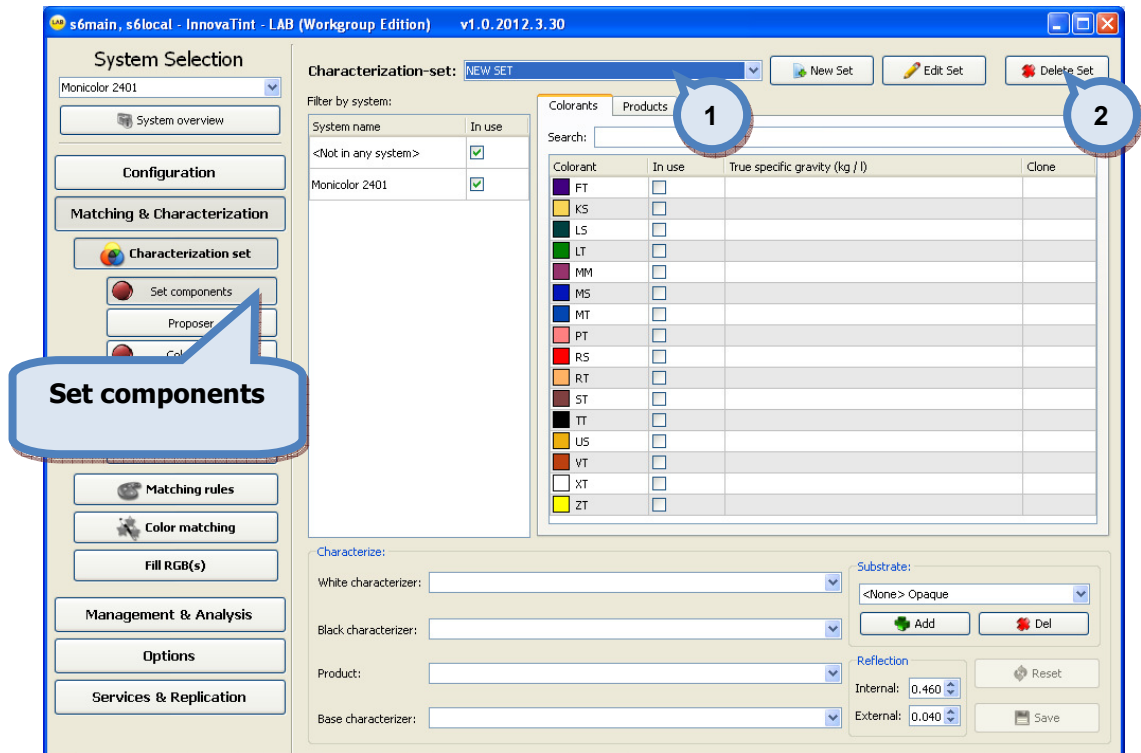
3. Select the default film thickness for this set on the **Default wet film thickness** selector field.

4. Enable the check box **Opaque** if draw downs used are fully hiding.

Note: Now you have only created a name for the new characterization set. Next you can proceed with selecting the components to be used in the system, as well as the other properties for the system.

3.1.2 Delete a characterization set

To delete a characterization set, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Set components** page.

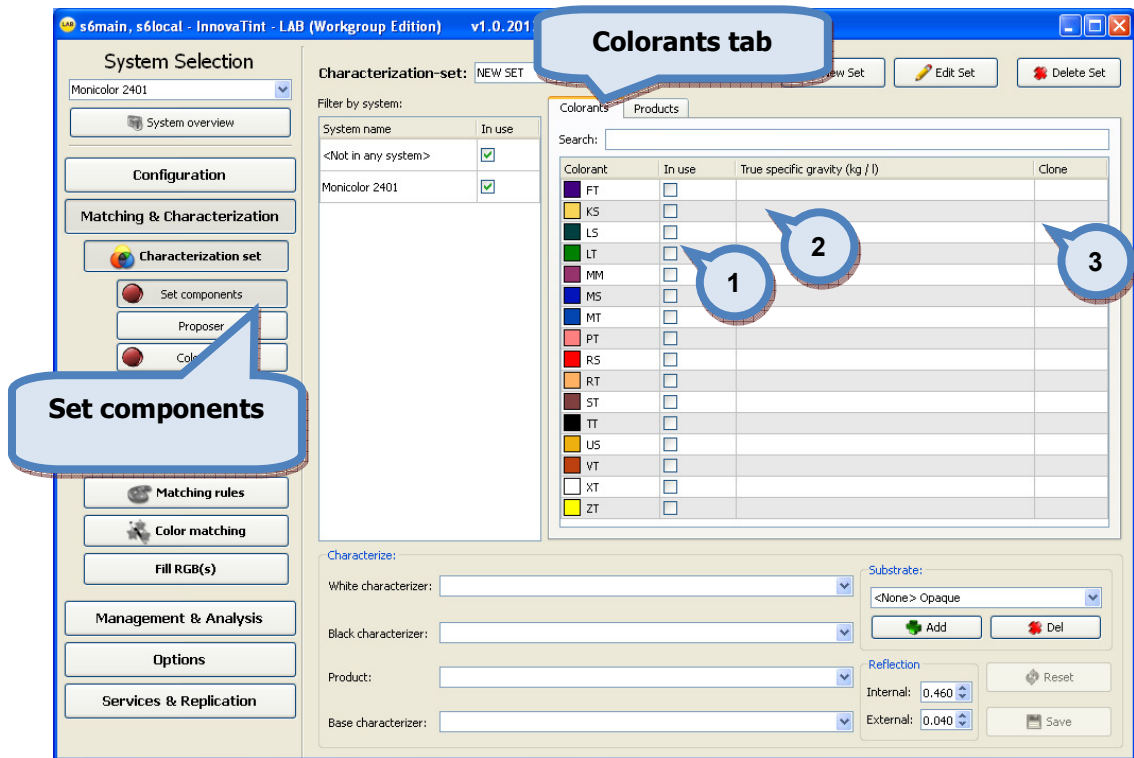


1. Select the system from the **Characterization-set** drop down list.

2. Click the **Delete set**  button.

3.1.3 Set the colorants to be used in the characterization set

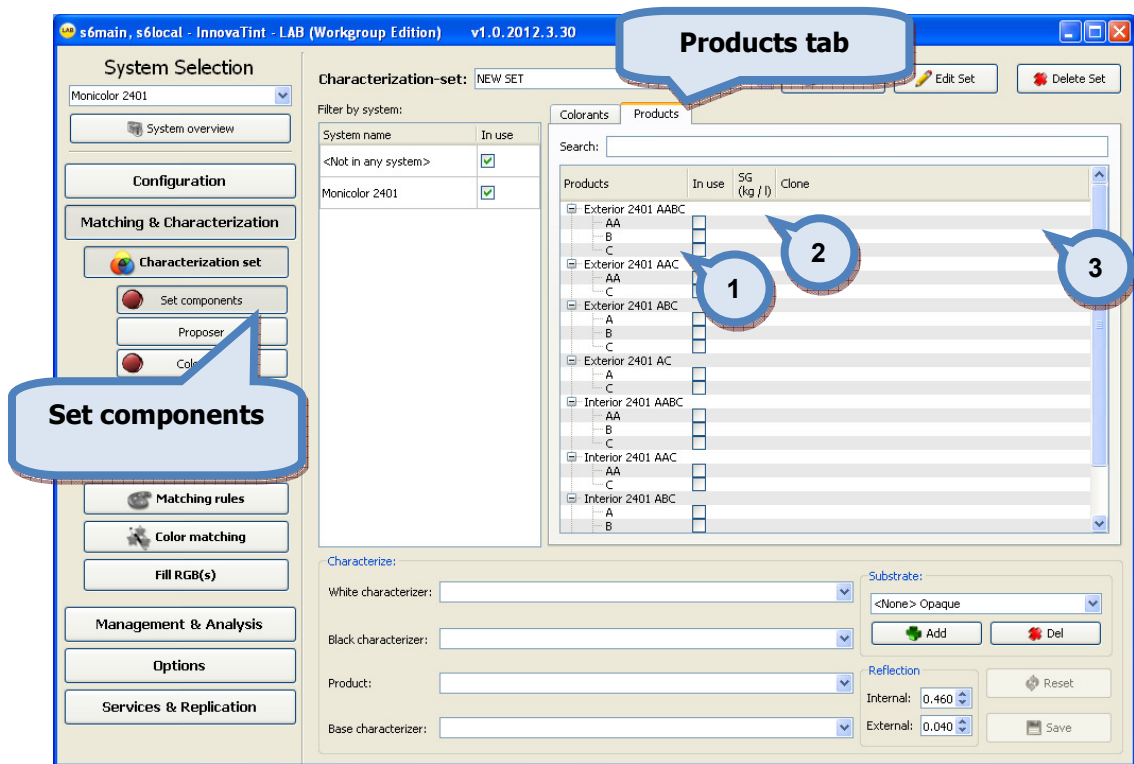
To set colorants to be used in the characterization set, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Set components** page.



1. Click the check box **In use** on **Colorant** table to select colorants to be used in characterization.
2. Enter density of colorants used in characterization into **True specific gravity** column. The unit of the measure is kg/litre.
3. If you want to copy the colorant characterization information, select the already characterized colorant from the drop down list in the **Clone** column.

3.1.4 Set the base paints to be used in the characterization set

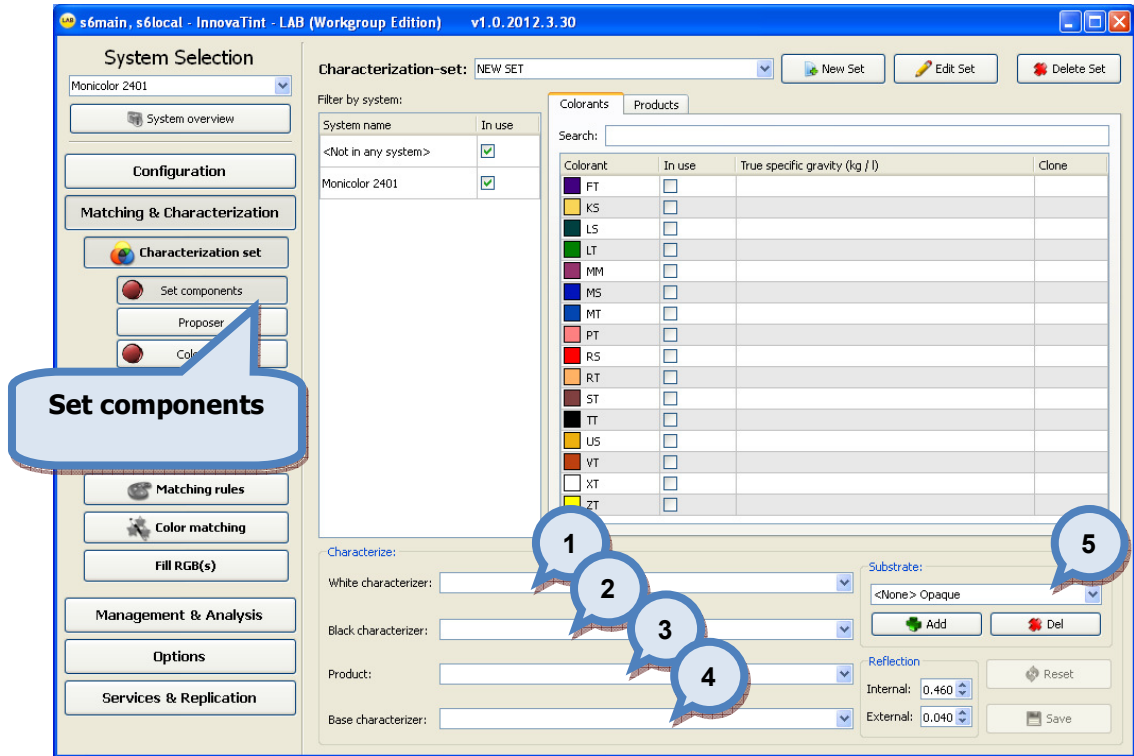
To set base paints to be used in the characterization set, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Set components** page.



1. Click the check box **In use** on **Products** table to select the base paints to be used in characterization.
2. Enter density of base paints used in characterization into **SG** column. The unit of the measure is kg/litre.
3. If you want to copy the base paint characterization information, select the already characterized base paint from the drop down list in the **Clone** column

3.1.5 Set the characterization white and black colorants, products, and substrate

To set the characterization white and black, products, and substrate to be used in the characterization set, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Set components** page.



1. Select the white colorant to be used in the characterization from the drop down list **White characterizer**.

2. Select the black colorant to be used in the characterization from the drop down list **Black characterizer**.

NOTE: The white and the black colorant to be used as the characterization white and black, has to be selected as **"In use"** in colorants to be used in characterization, otherwise you cannot see them in this list.

3. Select the product to be used in the colorant characterization from the **Product** drop down list.

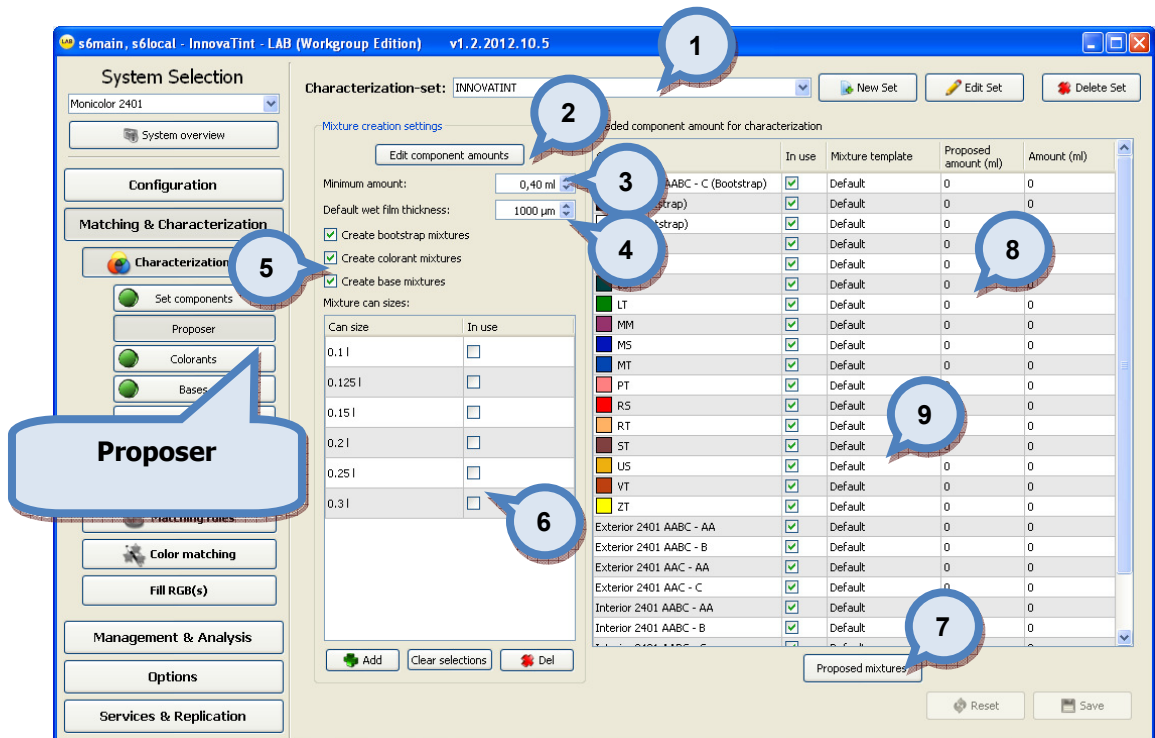
4. Select the base paint to be used in the colorant characterization from the **Base characterizer** drop down list.

5. Select the substrate used for the characterization from the **Substrate** drop down list.

Or create a new substrate by clicking the **Add** button.

3.1.6 Create a mixture proposals

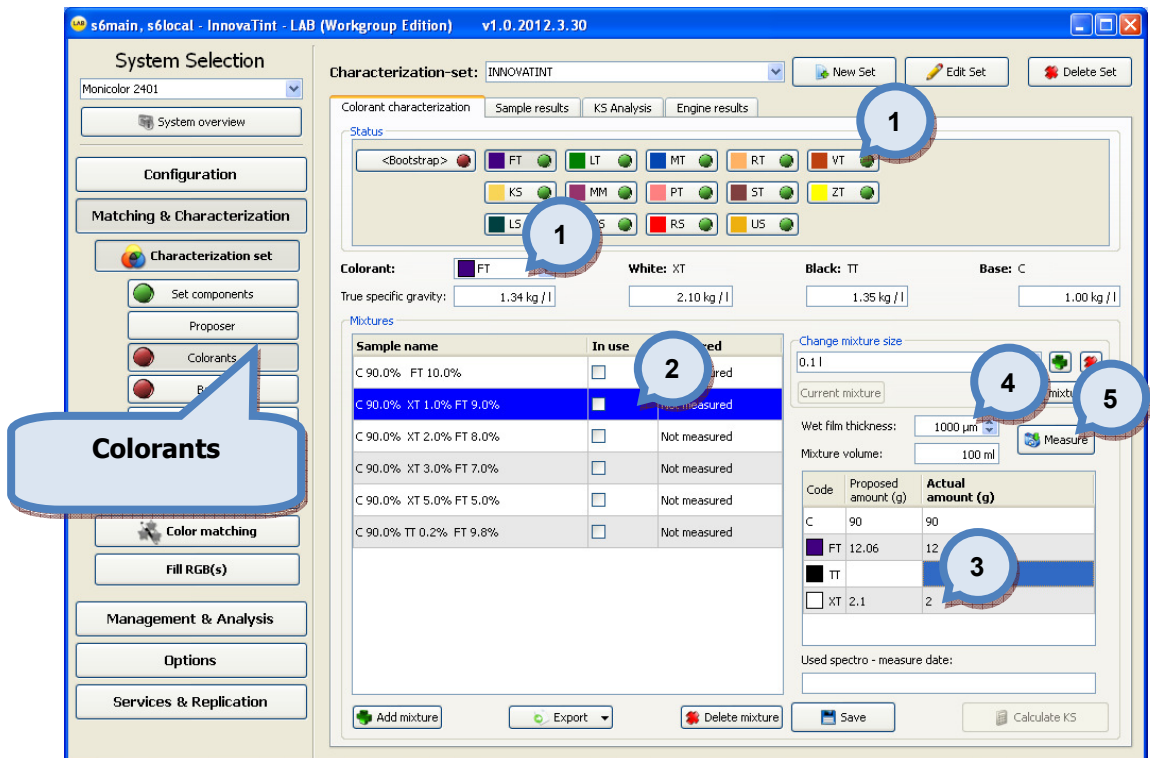
To create a mixture proposals for the characterization draw downs, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Proposer** page.

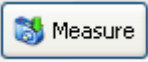


1. Select the Characterization set from the **Characterization-set** dropdown list
2. (Click the **Edit component amounts** button to manually change the suggested mixing ratios if needed).
3. Select the minimum amount of mixture in the selector field **Minimum amount**.
4. Change the default film thickness of draw downs if needed in the **Default film thickness** field.
5. Enable the check boxes to select the mixture types to be created. Options are:
 - Bootstrap mixtures**, for the characterization black and for the characterization white characterization.
 - Colorant mixtures**, for all of the colorants selected (other than the characterization white and the characterization black colorant).
 - Base mixtures**, for the base paint characterization.
6. Enable the **In use** check box to select used can size.
7. Click **Propose mixtures** button
8. The total amounts of all of the components used in the proposed mixtures are displayed in the table.
9. If you have created a mixture template, you can choose one from the drop down list in the **Mixture template** column.

3.1.7 Measure the colorant characterization draw downs

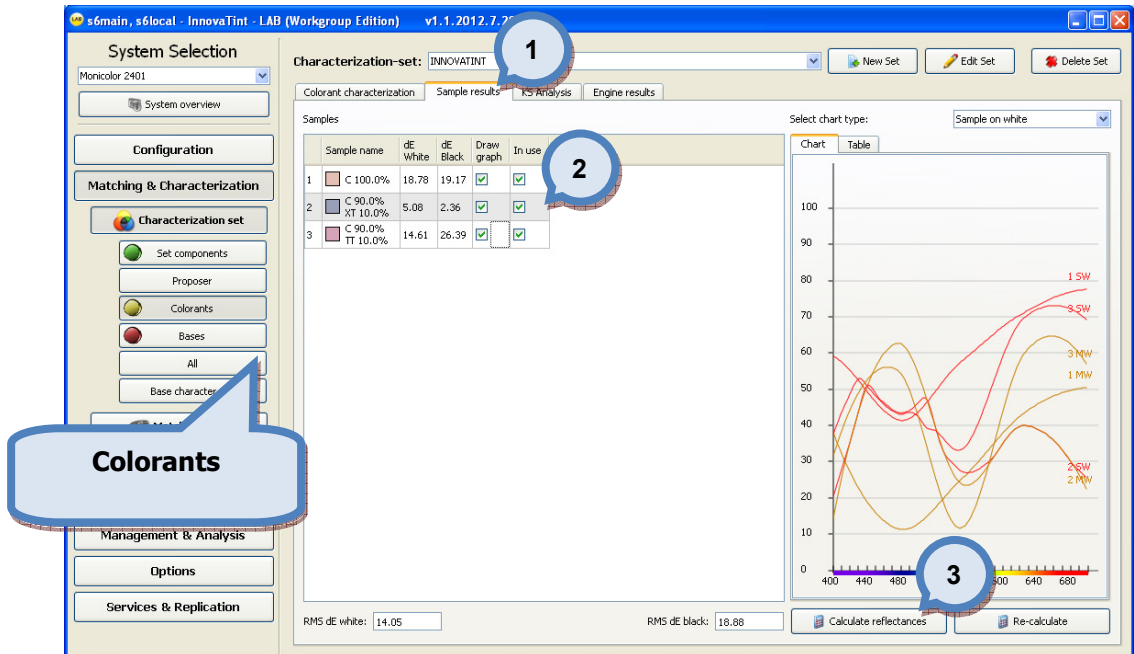
To measure the colorant characterization draw downs, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Colorants** page.



1. Select the **Colorant** from Status section or from the drop down list
 2. Select the mixture from **Mixtures** list by clicking the sample name.
 3. Enter the real values of components used for the draw downs into the **Actual amount** column.
 4. Enter real wet film thickness used in the draw downs into the **wet film thickness** field.
- 
5. Click the **measure** button.
 6. Repeat this for all of the mixtures for this colorant before proceeding to the next step.

3.1.8 Calculate the K/S values for the colorant drawdowns

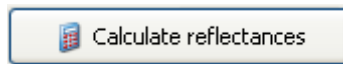
To calculate the K/S values for the colorants characterization draw downs, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Colorants** page.



1. Navigate in to the **Sample result** tab page.

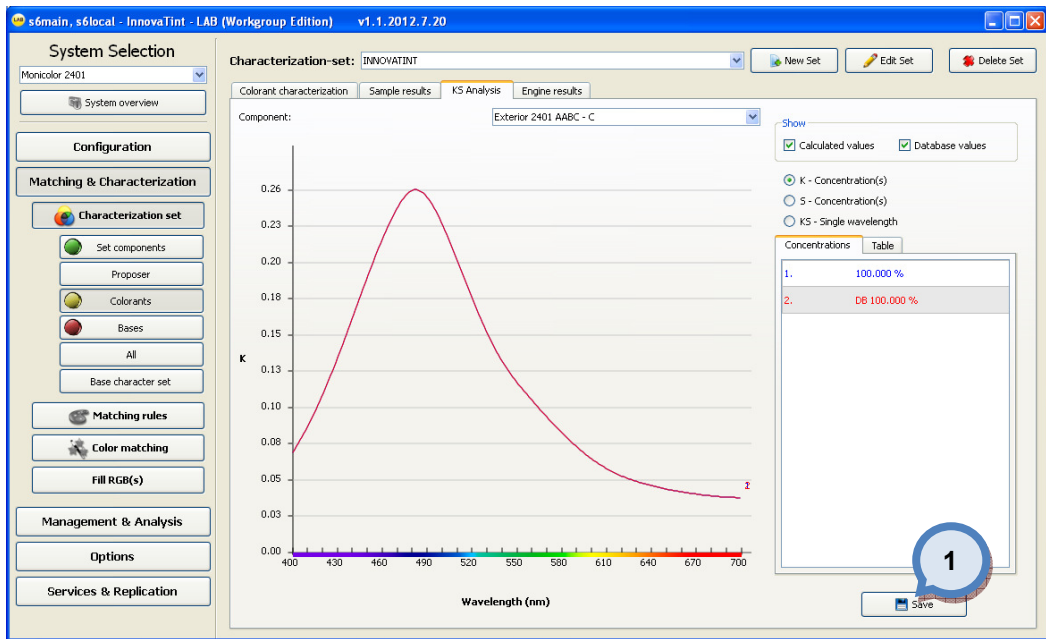
2. Enable check box **In Use** for the mixtures you wish to include into the K/S calculation.

3. Click the **Calculate reflectances** button.



4. Navigate into the **K/S analysis** tab page.

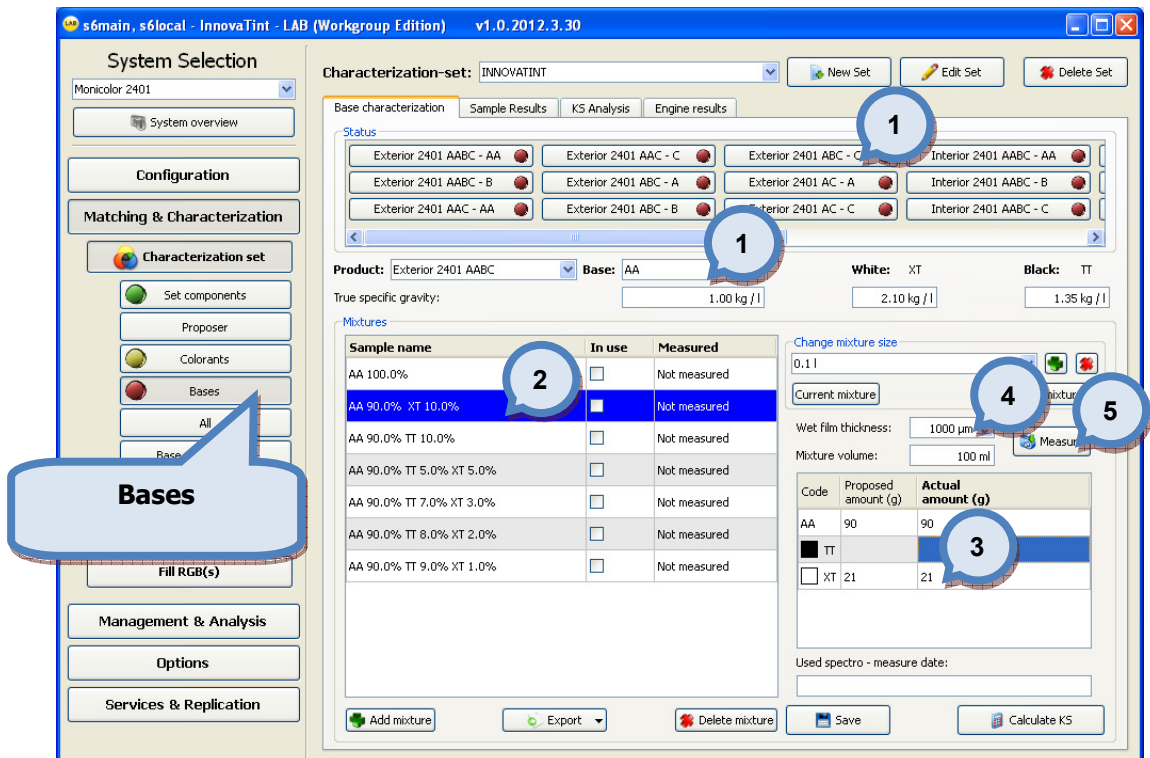
Note: If you want to view the characterization result with other mixture combinations, select other mixtures in the field **In use**, and click **Re-calculate** button. This procedure will recalculate reflectance values, but they are not saved for use.



1. Click the **Save** button to save K/S values.
2. Repeat mixture measurements and the K/S calculations for all of the colorants.

3.1.9 Measure a base characterization draw downs

To measure the base paint characterization draw downs, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Bases** page.



1. Select the **Base paint** from Status section or from the drop down list.
2. Select the mixture from **Mixtures** list by clicking the sample name.

3.Enter the real values of mixtures used for the draw downs into the **Actual amount** column.

4.Enter real wet film thickness used in the draw downs into the **wet film thickness** field.

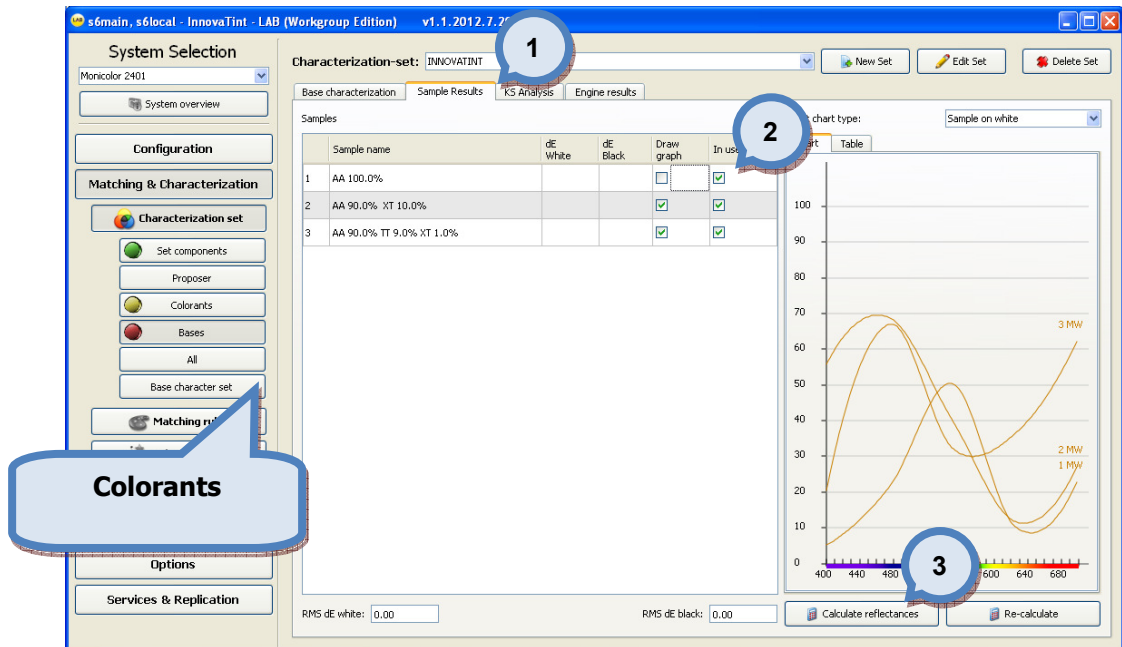


5.Click the **Measure** button.

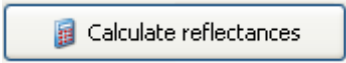
6.Repeat this for all of the mixtures for this base paint before proceeding to the next step.

3.1.10 Calculate K/S values for the base paint drawdowns

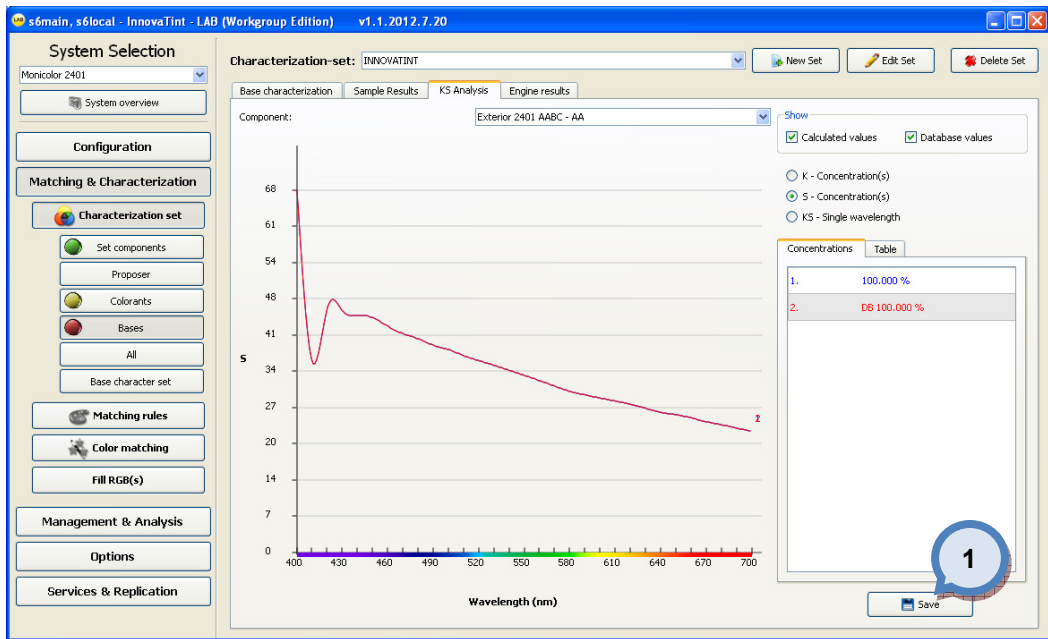
To calculate K/S values for the base paint characterization draw downs, navigate into the **Matching & Characterization** ⇒ **Characterization set** ⇒ **Bases** page.



1. Navigate in to the **Sample result** tab page.
2. Enable check box **In Use** for the mixtures you wish to include into the K/S calculation.
3. Click the **Calculate reflectances** button.
4. Navigate into the **K/S analysis** tab page.



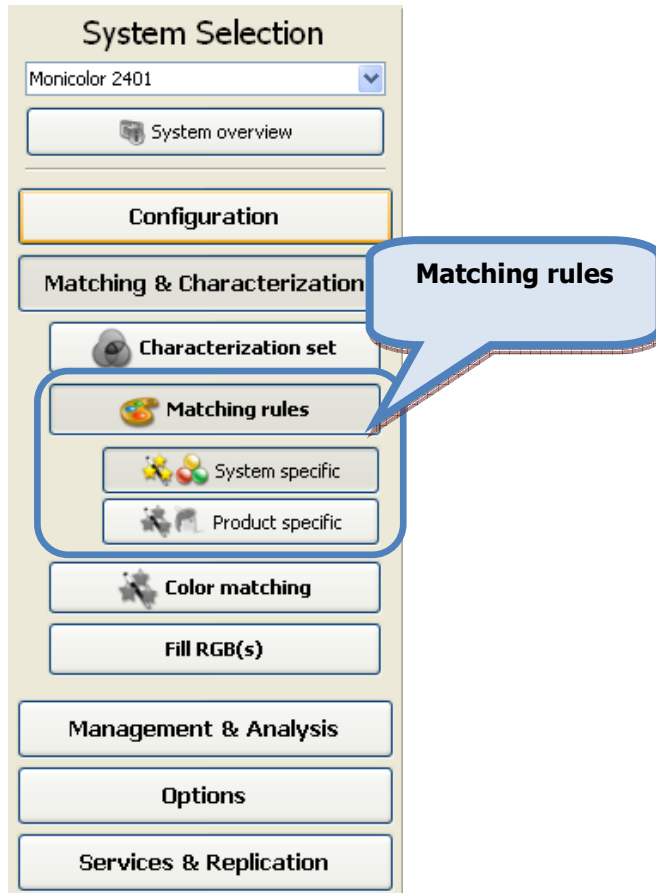
Note: If you want to view the characterization result with other mixture combinations, select other mixtures in the field **In use**, and click **Re-calculate** button. This procedure will recalculate reflectance values, but they are not saved for use.



1. Click the **Save** button to save K/S values.
2. Repeat mixture measurements and the K/S calculations for all of the base paints.

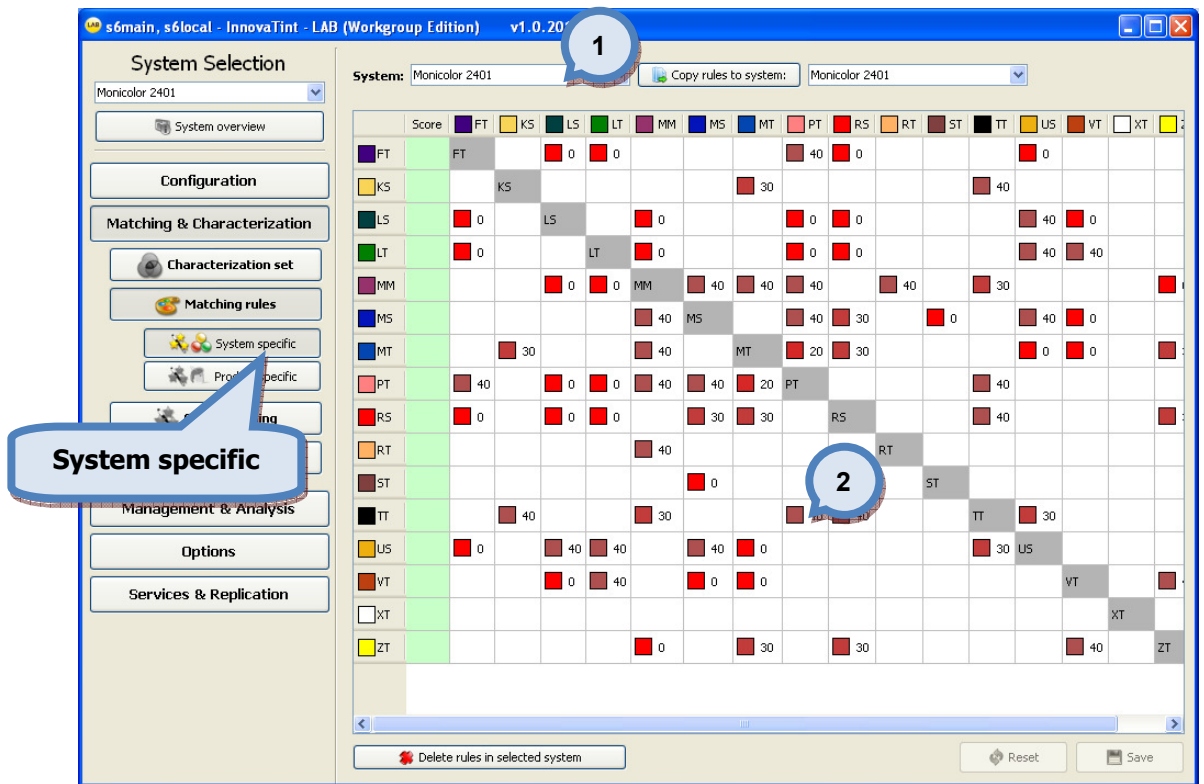
3.2 Matching rules

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.



3.2.1 Set the non-allowed colorant combinations

To set system specific matching rules, navigate into the **Matching & Characterization** ⇒ **Matching rules** ⇒ **System specific** page.



1. Select **system** from drop down list

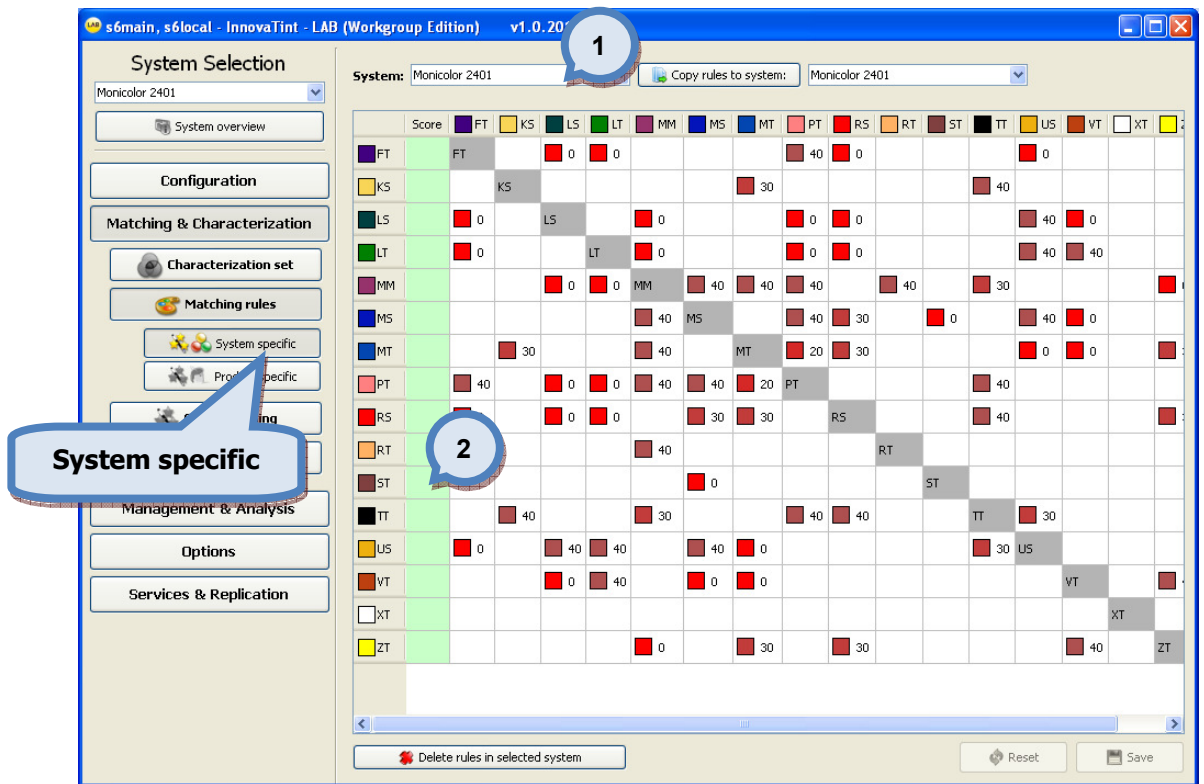
2. Set **weight** to colorant pairs by clicking with mouse button on the cell

Colorant pair weights:

- 0 = not allowed pair
- 10 = 10% possibility to use
- 40 = 40% possibility to use
- 60 = 60% possibility to use
- 100 = should always be used as pair

3.2.2 Set the score for the colorants

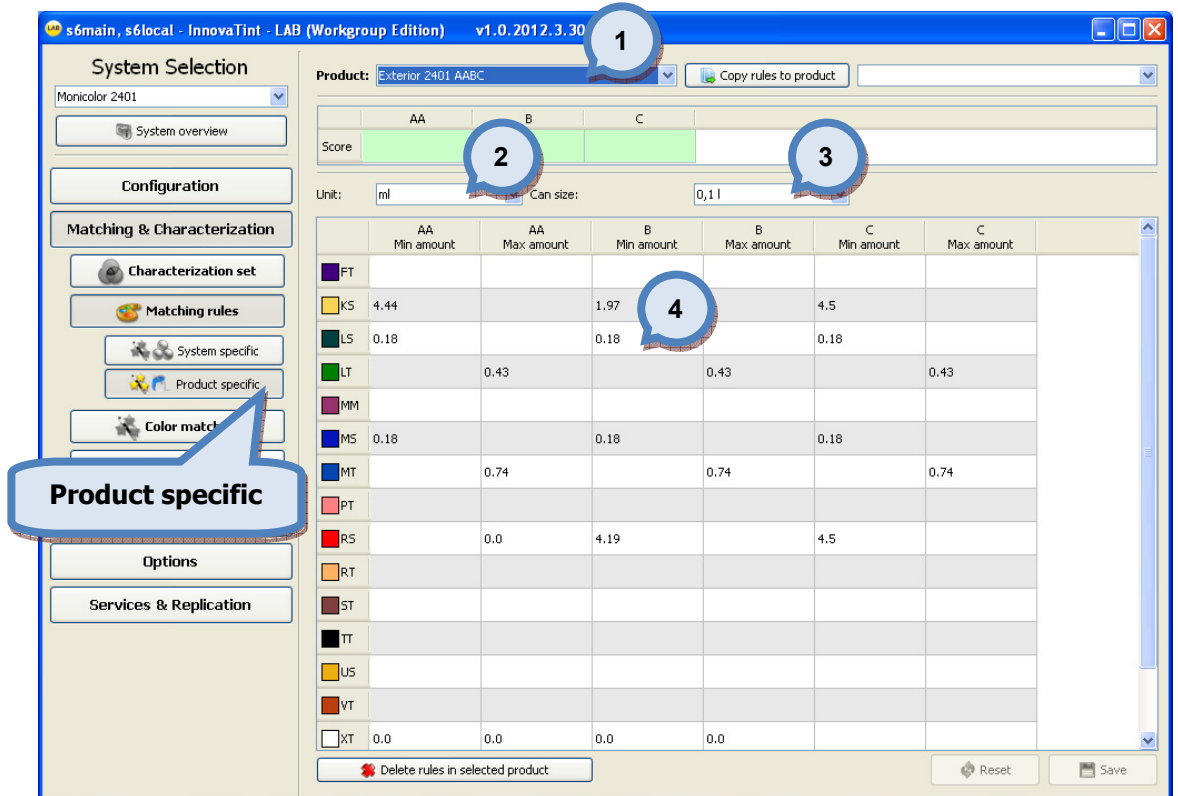
To set system specific matching rules, navigate into the **Matching & Characterization** ⇒ **Matching rules** ⇒ **System specific** page.



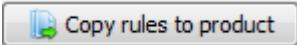
1. Select **system** from drop down list
2. Enter the score number to the **Score** field. (1=most favourable colorant, 10=least favourable colorant)
3. Repeat to all colorants

3.2.3 Set the colorant addition limits

To set product specific matching rules, navigate into the **Matching & Characterization** ⇒ **Matching rules** ⇒ **Product specific** page.

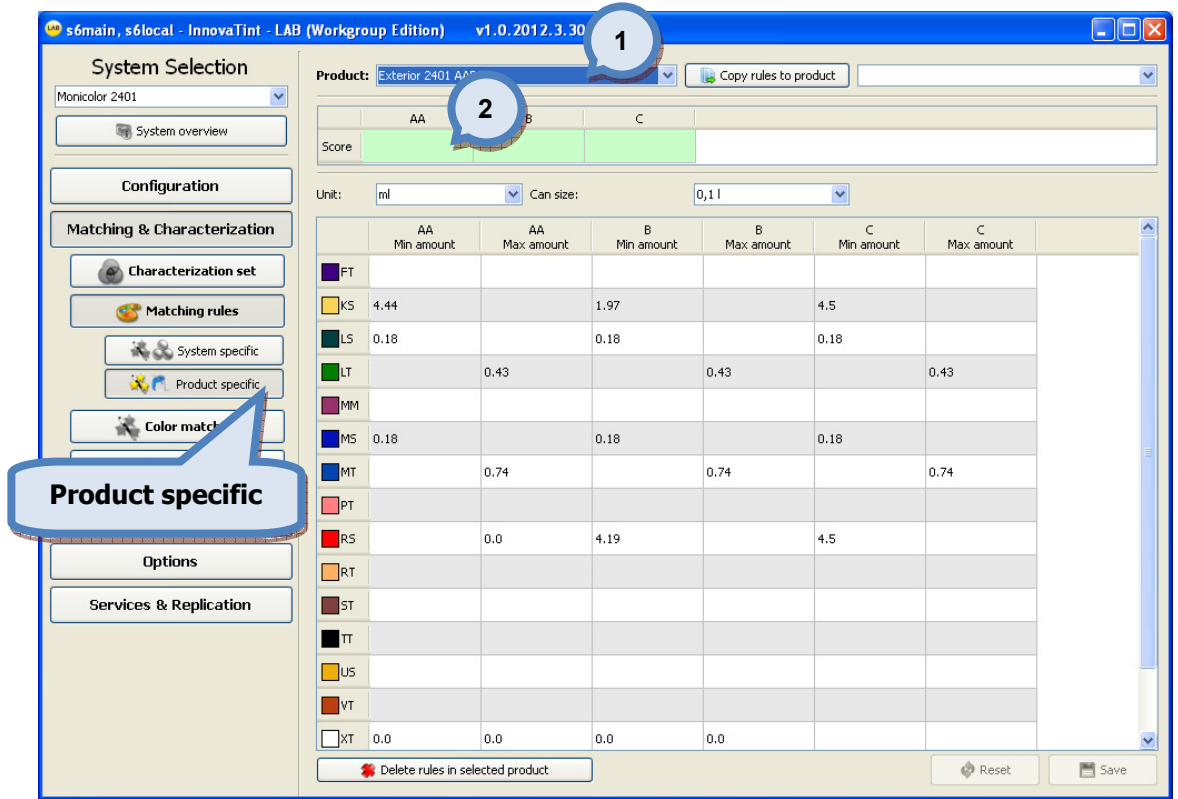


1. Select the product from the **Product** drop down list.
2. Select unit from the **Unit** drop down list
3. Select can size from the **Can size** drop down list (unless using percentages)
4. Enter the **minimum** and the **maximum** amounts for colorant-base combinations into the appropriate columns.

You can also use  button to copy rules from one product to another product. You need to select first the source and destination products.

3.2.4 Set the base paint score

To set product specific matching rules, navigate into the **Matching & Characterization** ⇒ **Matching rules** ⇒ **Product specific** page.

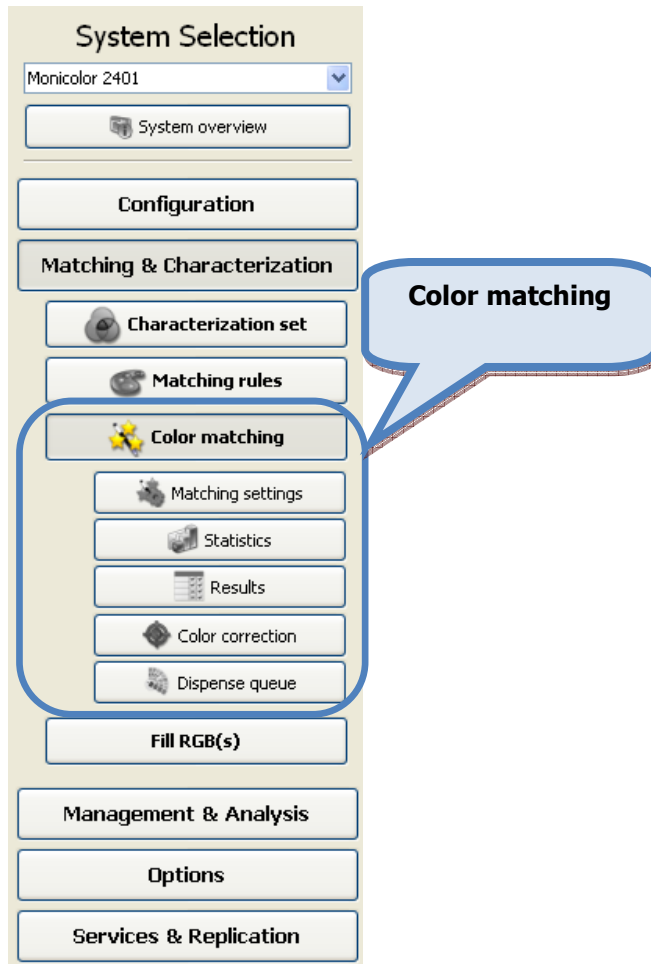


1. Select the product from the **Product** drop down list.

2. Enter the score number to the **Score** field. (1=most favourable base paint, 10=least favourable base paint)

3.3 Color matching

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

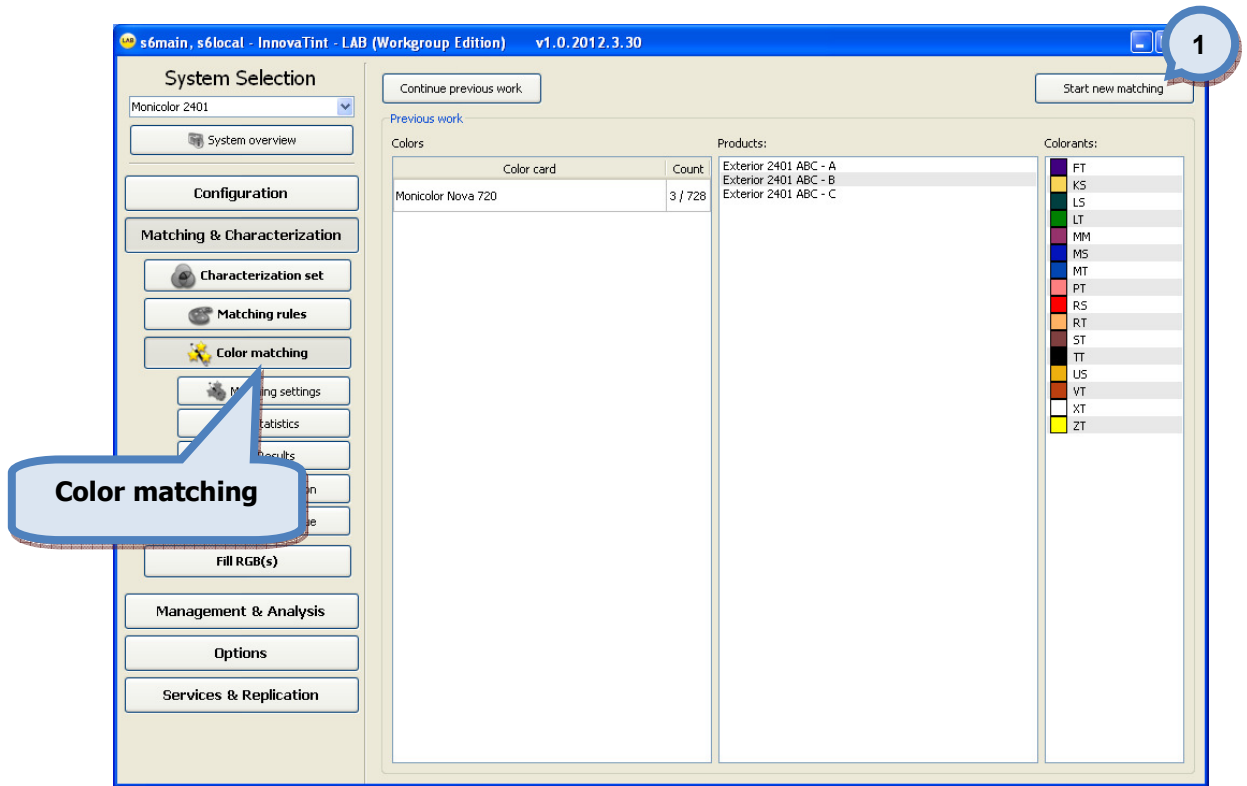


On color matching section you have five sub pages:

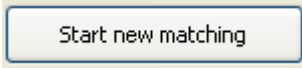
- Matching settings,
- Statistics,
- Results,
- Color correction, and
- Dispensing queue.

3.3.1 Start a new match

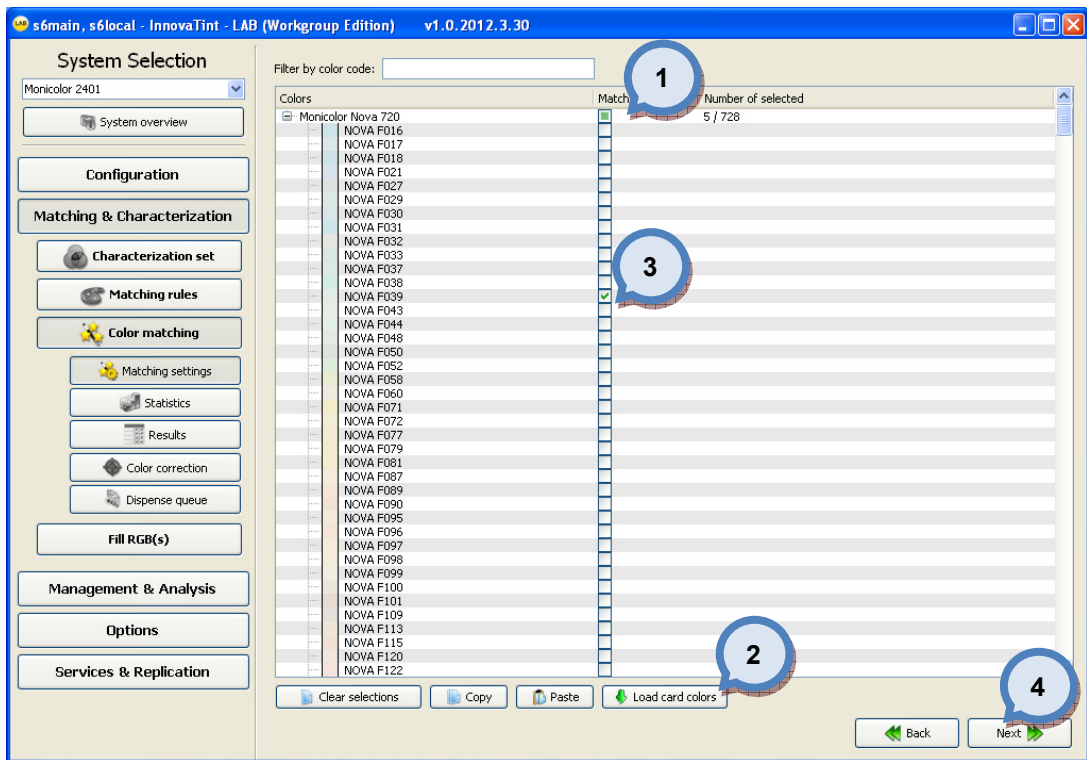
To start a new matching job, navigate into the **Matching & Characterization** ⇒ **Color matching** page.

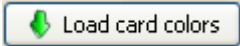


1. Click the **Start new matching** button.

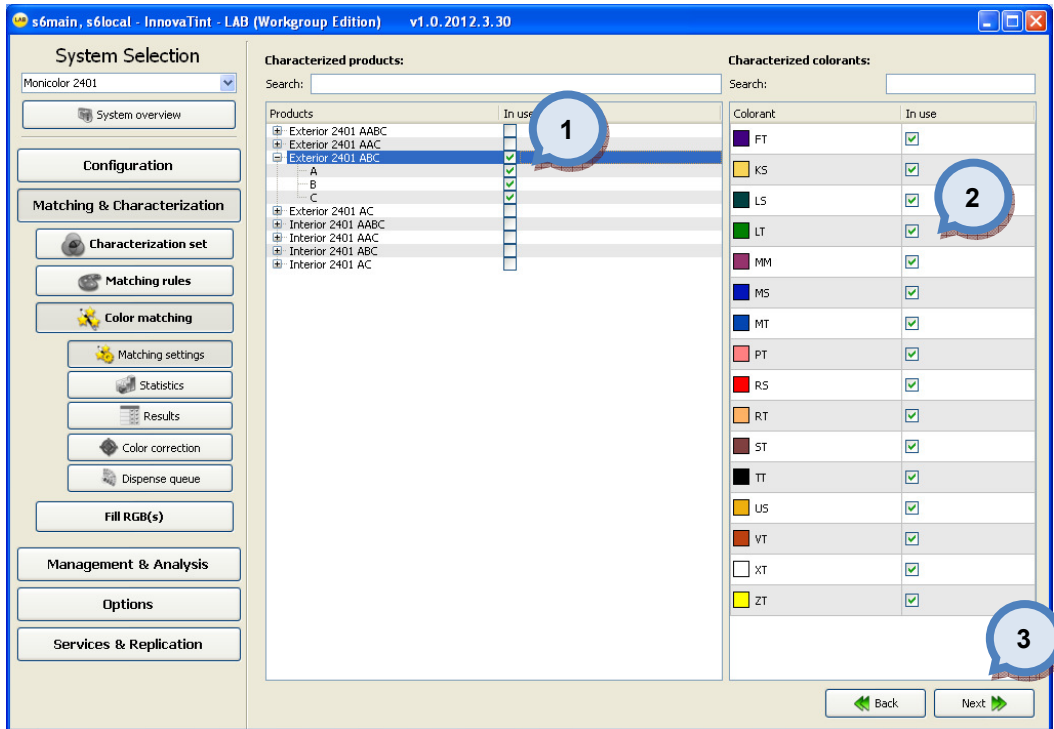


The **Matching settings** page opens up:



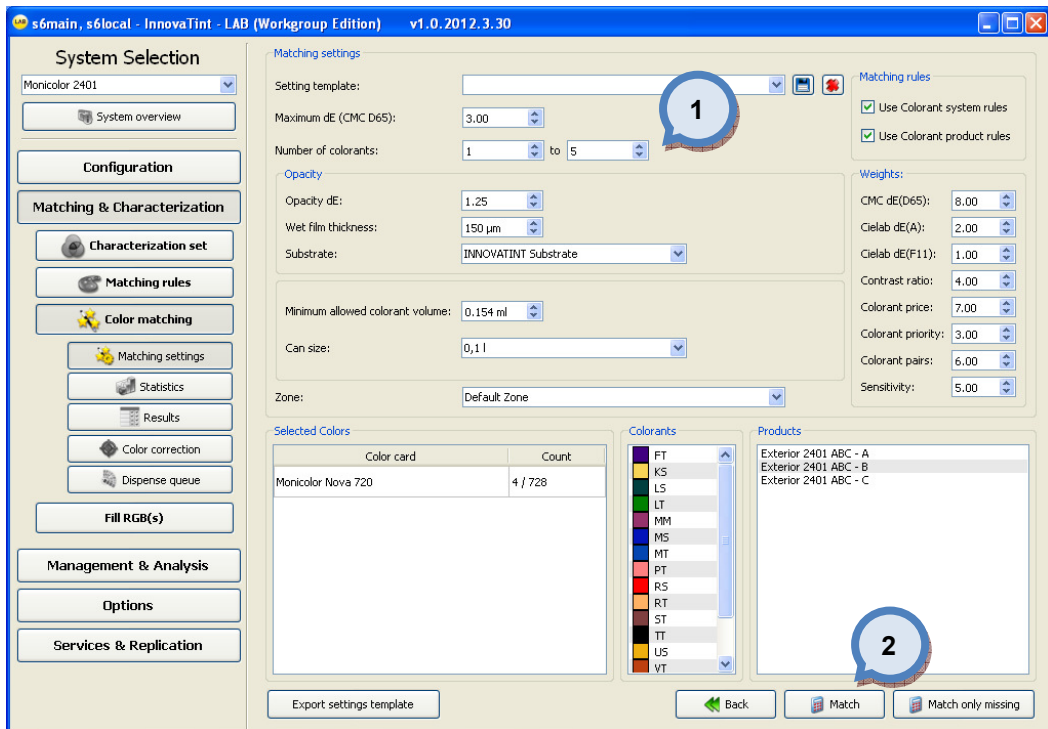
1. Enable the check box to select the **color card(s)** from list
2. Click the **Load card color** button to display all of the colors in the selected color cards.

3. Enable the check box to select **color(s)** from list
4. Click the **Next** button.

The **Characterized products** window opens up:



1. Enable the check box **In use** to select the **base paints or products** from the list.
1. Enable the check box **In use** to select the **Colorants** to be used from the list.
3. Click the **Next** button.

The **Matching settings** window opens up:



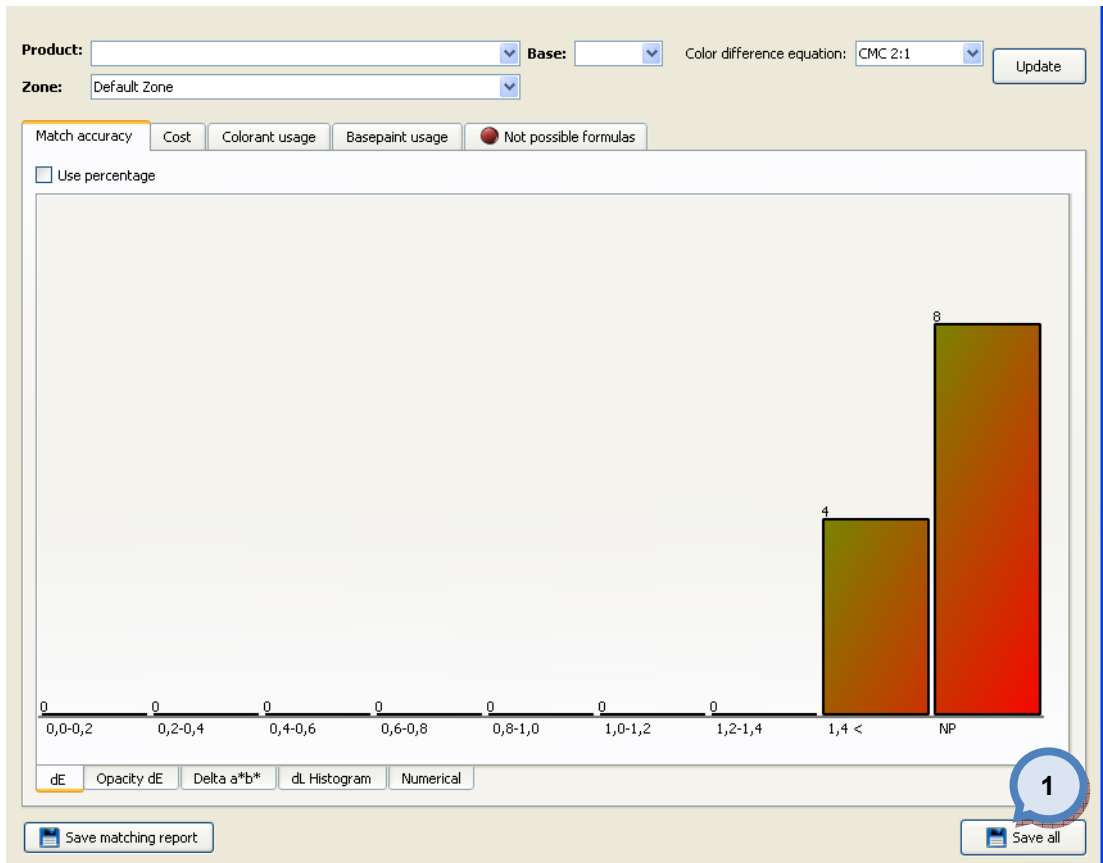
1. Make needed changes to default matching settings if needed.

2. Click **Match** button.

Note: Please refer to InnovaTint LAB User Manual for instructions on the matching settings.

3. Click **OK** button when matching is finished.

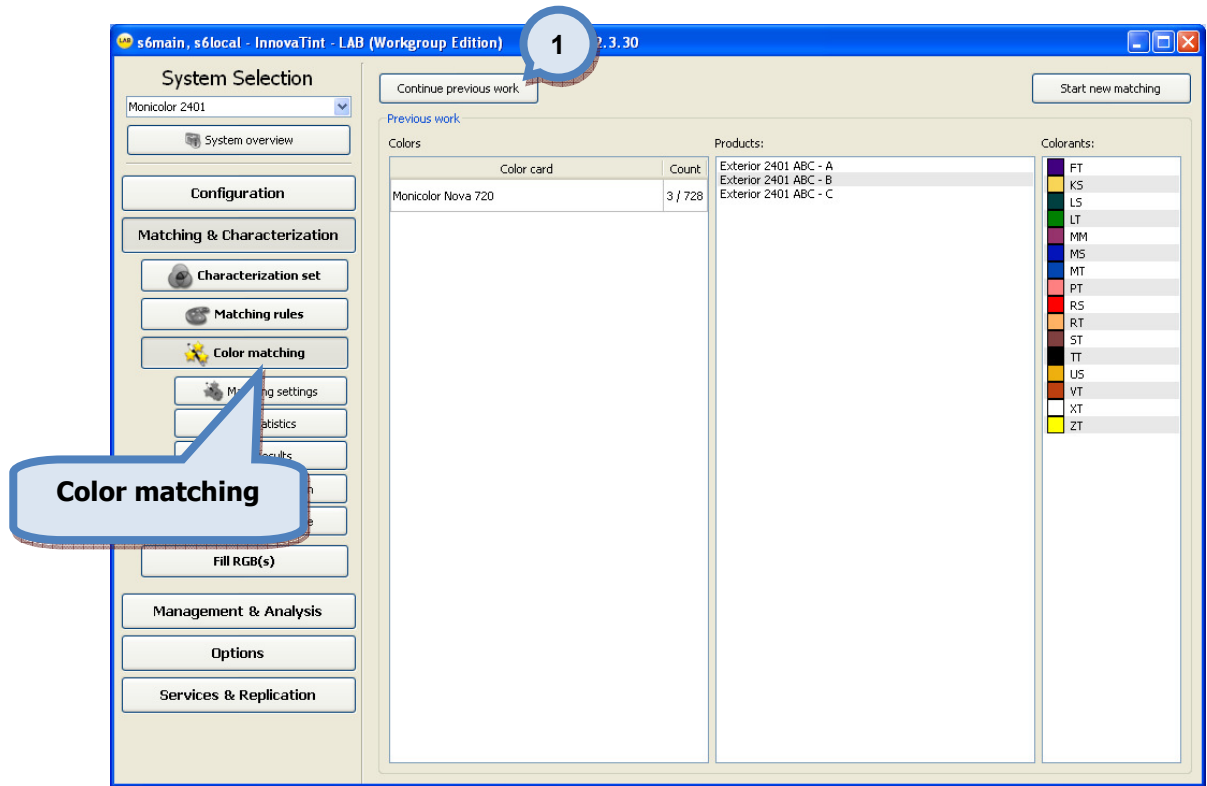
The **Statistics** page opens up:



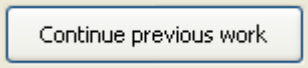
1. Click **Save all** button to save all formula.

3.3.2 Continue a previous match

To continue a previously started matching job, navigate into the **Matching & Characterization** ⇒ **Color matching** page.



1. Click the **Continue previous work** button.

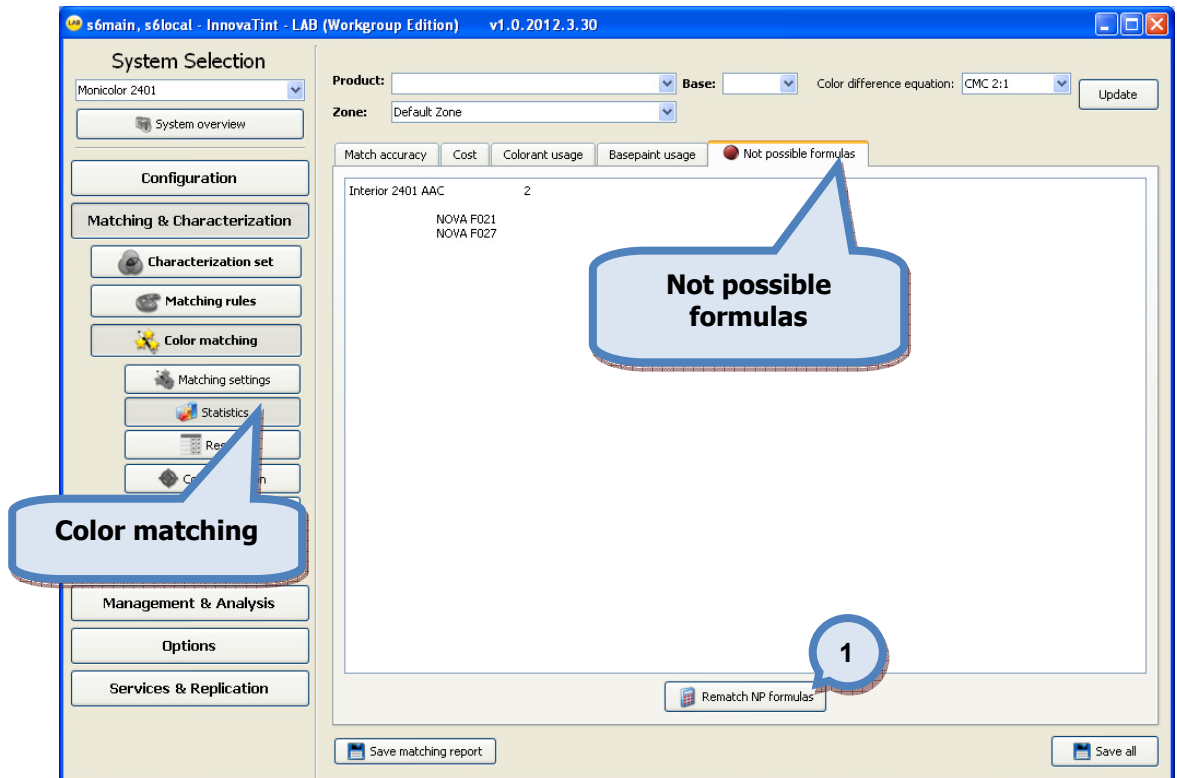


The **Matching settings** page opens up

Please proceed as described in the section: Start a new match.

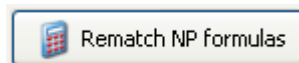
3.3.3 Re-match the not possible colors on the previous matching job

To re-match the not possible colors on the matching job, navigate into the **Matching & Characterization** ⇒ **Color matching** page and to the **Not possible formulas** tab page.



When matching result includes the colors that could not be matched, those colors are displayed in the **Not possible formulas** tab page.

1. Click **Rematch NP formulas** button.

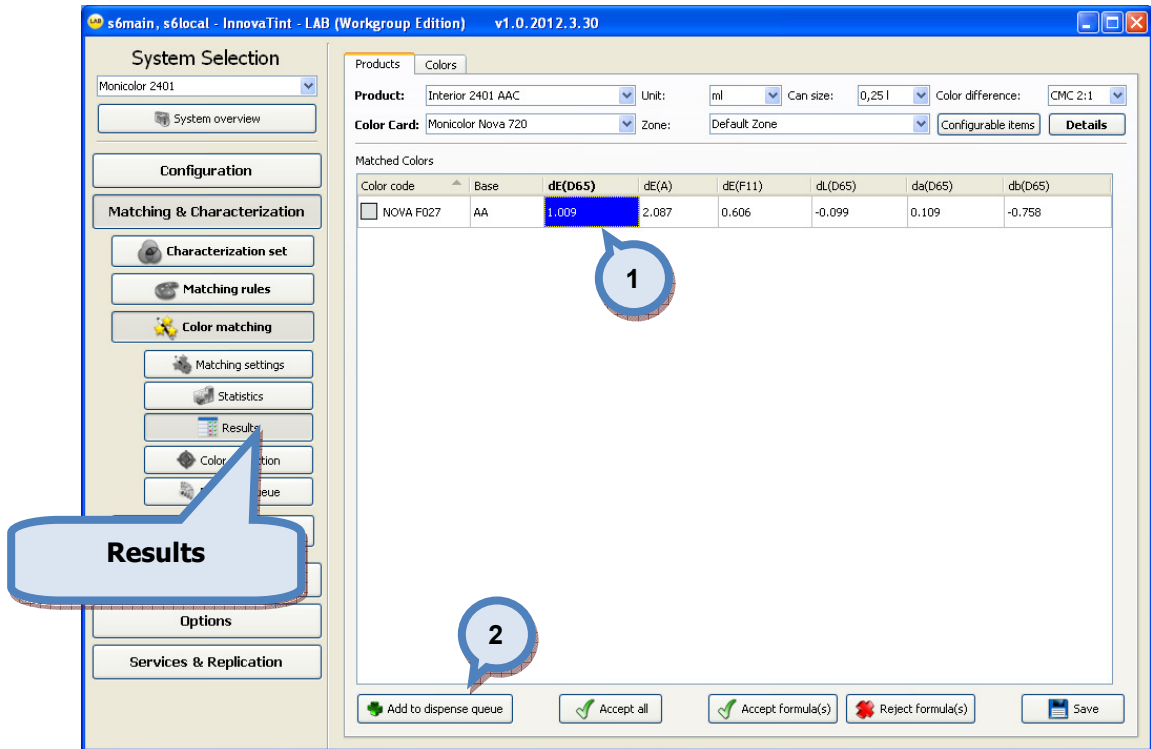


The **Matching settings** page opens up

2. **Make changes to matching settings**, and proceed as described in the section: Start a new match.

3.3.4 Add matched color into the dispensing queue

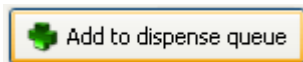
To add matched color into the dispensing queue after matching job is finished, navigate into the **Matching & Characterization** ⇒ **Color matching** ⇒ **Results** page.



After making a matching as described on sections: 3.3.1 Start a new match, 3.3.2 Continue a previous work, or 3.3.3 Re-match the not possible colors on the previous matching job

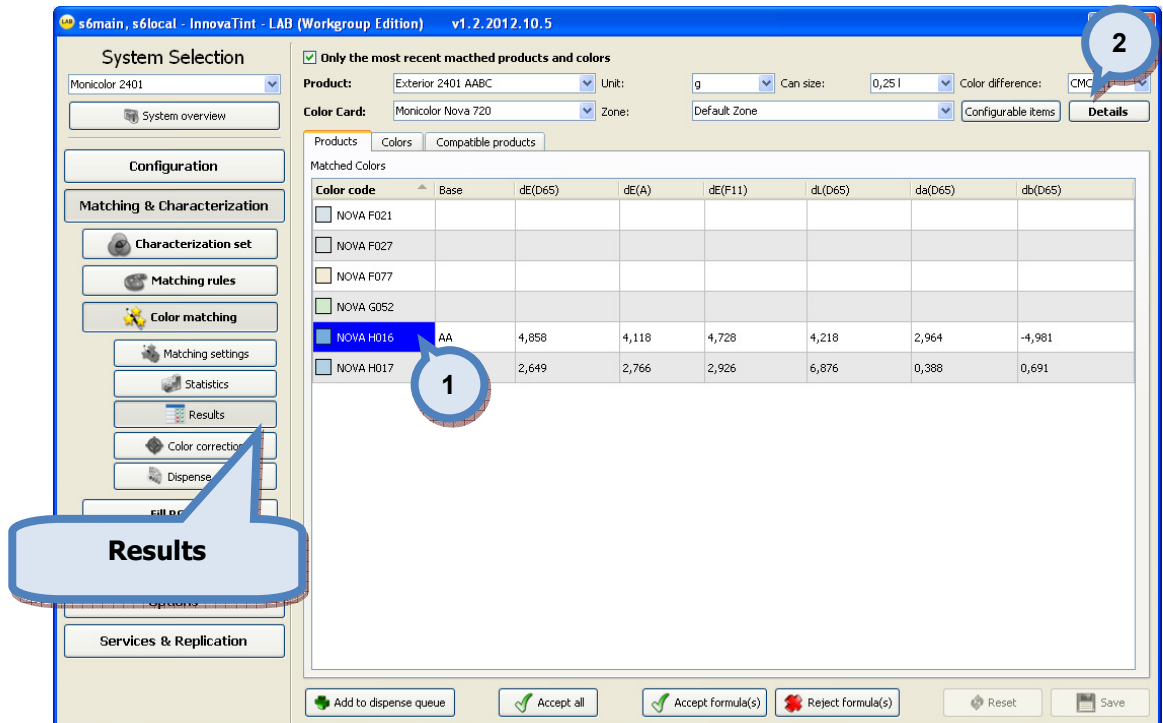
1. Select a **formula** from the list by clicking on the any part of the row

2. Click the **Add to dispensing queue** button.



3.3.5 Match an alternative color formula for matched color

To match an alternative color formula for matched color after matching job is finished, navigate into the **Matching & Characterization** ⇒ **Color matching** ⇒ **Results** page.



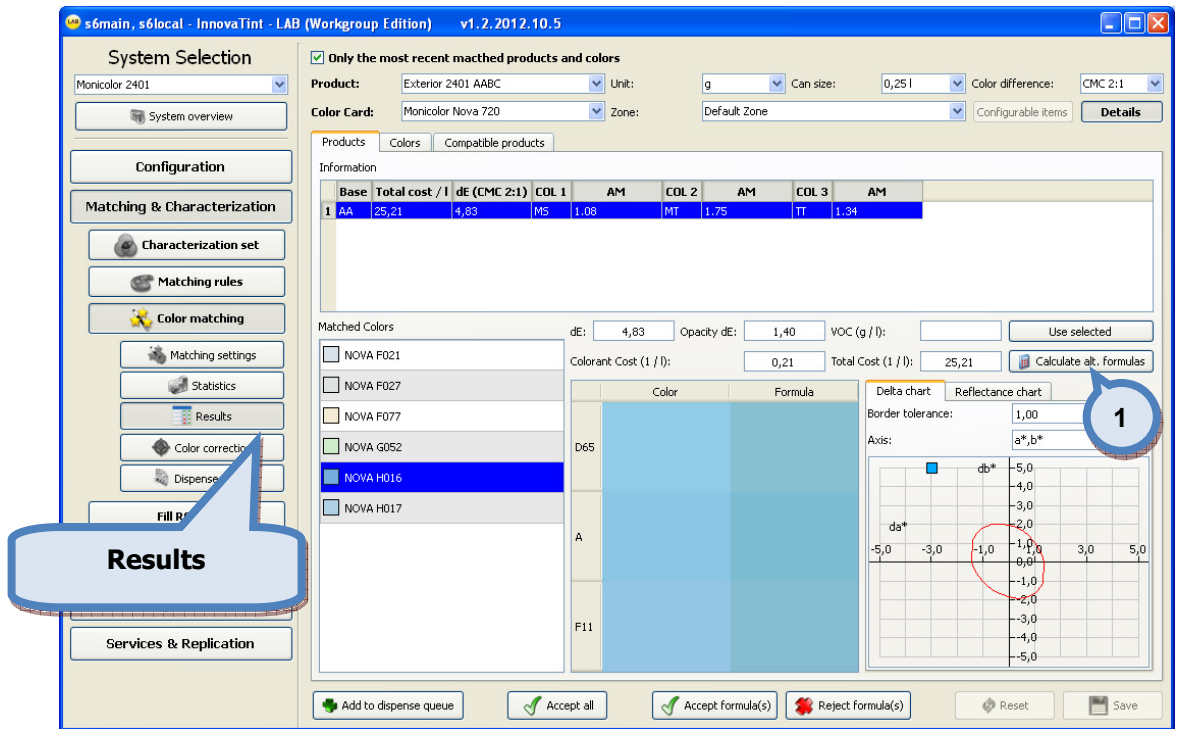
After making a matching as described on sections: 3.3.1 Start a new match, 3.3.2 Continue a previous work, or 3.3.3 Re-match the not possible colors on the previous matching job

1. Select a **formula** from the list by clicking on the any part of the row

2. Click the **Details** button.



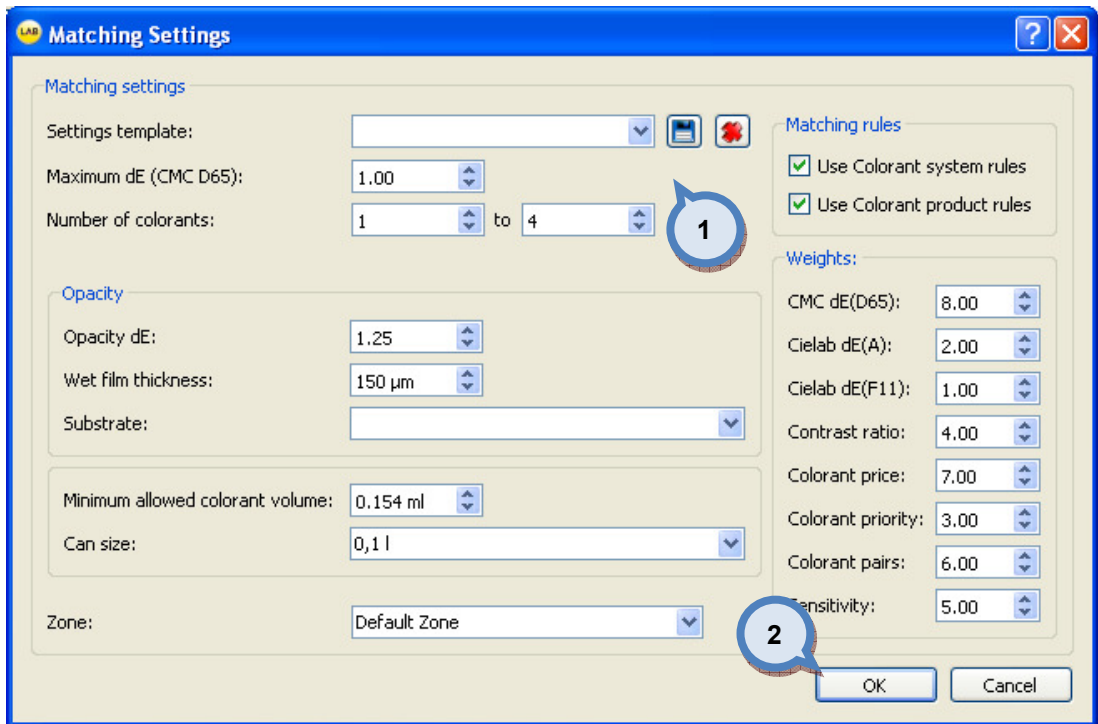
The **Details** window opens to Results page:



1. Click **Calculate alternative formulas** button.

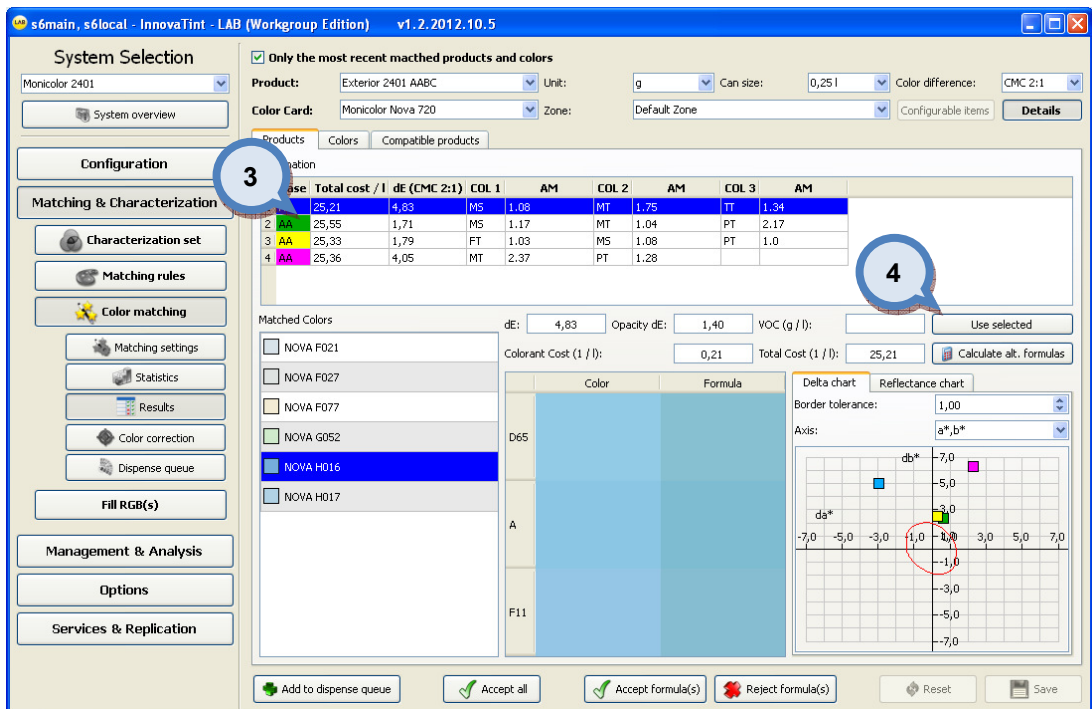


The **Matching settings** window opens up:



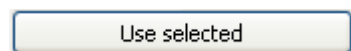
1. Make needed changes to the **matching settings**.

2. Click **OK** button.



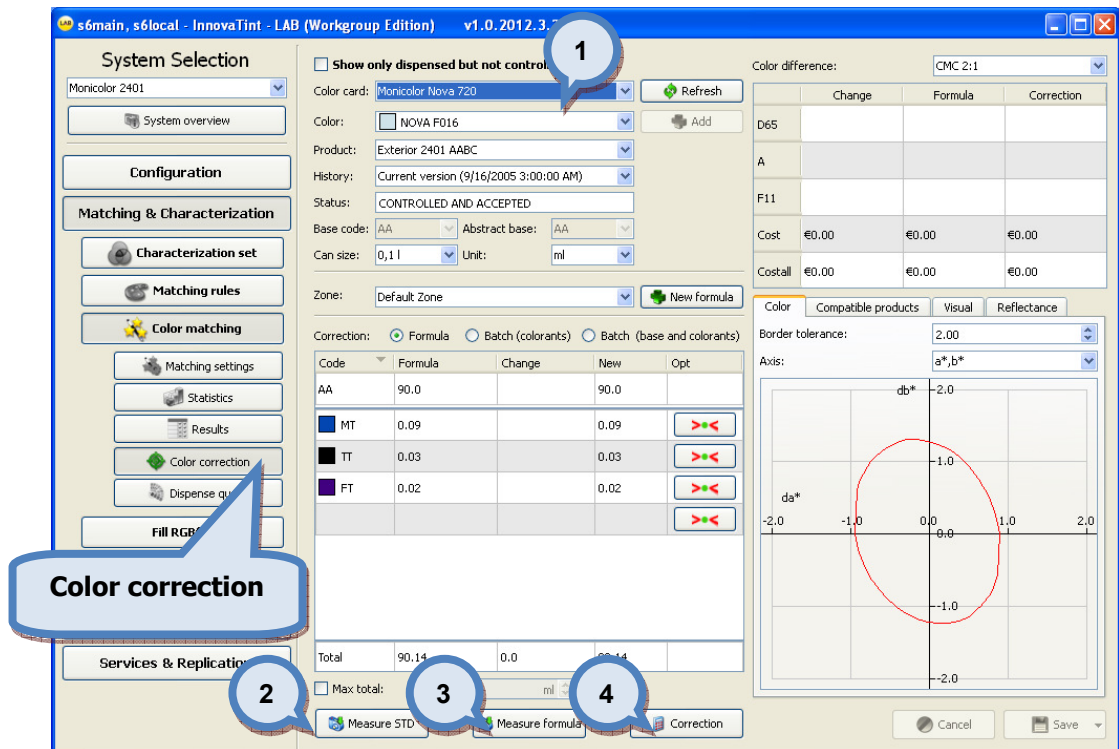
3. The alternative formulas are displayed with color coding.

4. Click **Use selected** button to use an alternative formula.



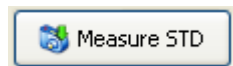
3.3.6 Make a color correction for a color formula

To make a color correction for a color, navigate into the **Matching & Characterization** ⇒ **Color matching** ⇒ **Color correction** page.

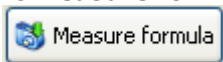


1. Select a color card, a color, product, history, and the zone.

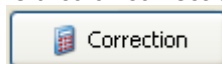
2. Click the **Measure STD** button to measure the color standard.



3. Click the **Measure formula** button to measure the draw down corresponding the formula version.

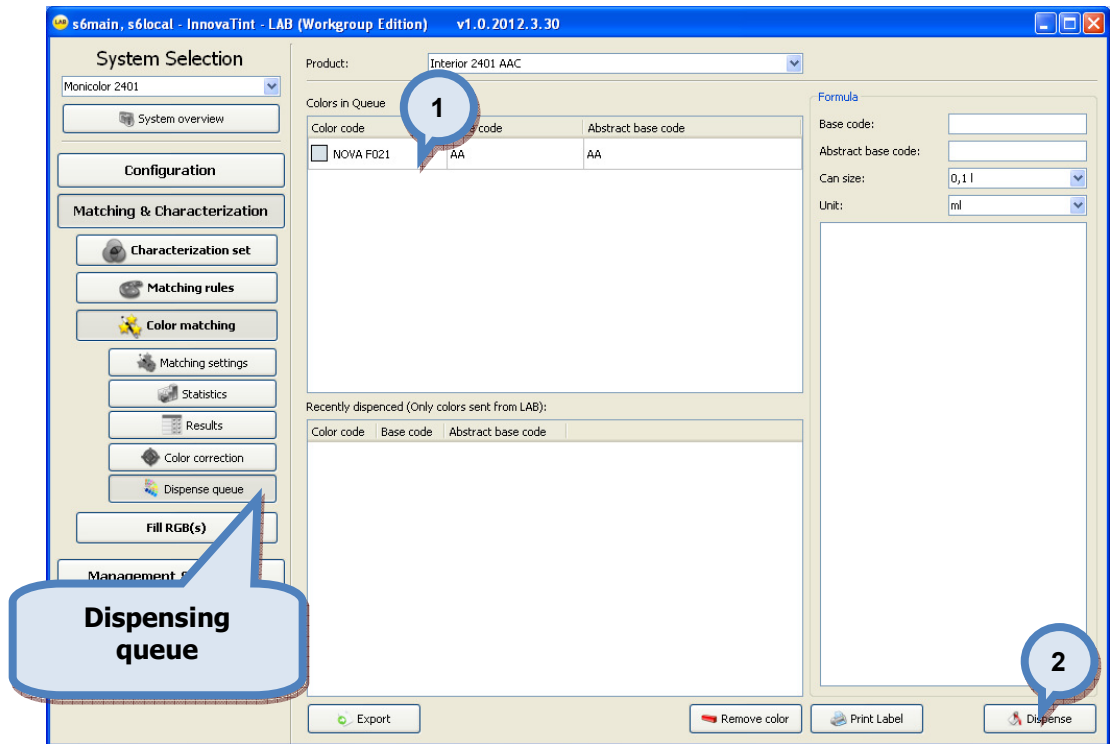


4. Click the **Correction button** to make a color correction for the formula based on the draw down made with the original formula.



3.3.7 Dispense a formula in the dispensing queue

To a formula in the dispensing queue, navigate into the **Matching & Characterization** ⇒ **Color matching** ⇒ **Dispensing queue** page.



1. Select a formula from the **Colors in Queue** list.

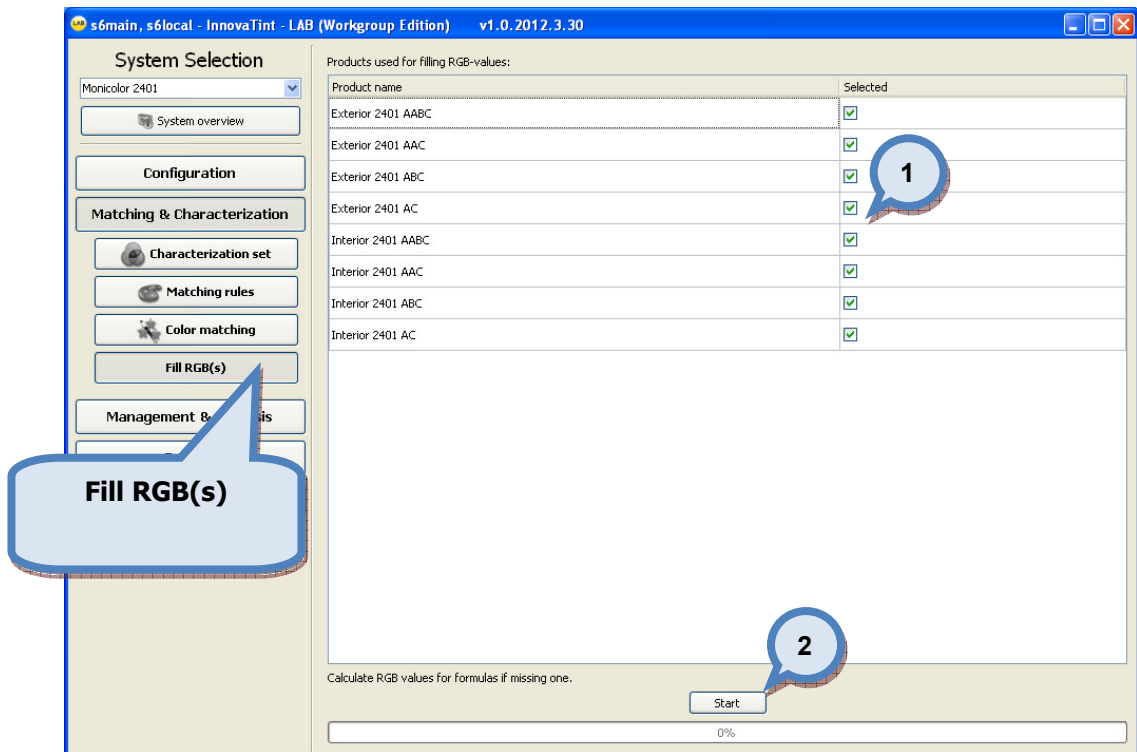
2. Click the **Dispense** button.



3.4 Fill the RGB values for the color card colors

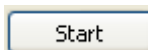
To fill the RGB values for the non-measured colors in the color cards, navigate into the **Matching & Characterization** ⇒ **Fill RGB(s)** page.

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.



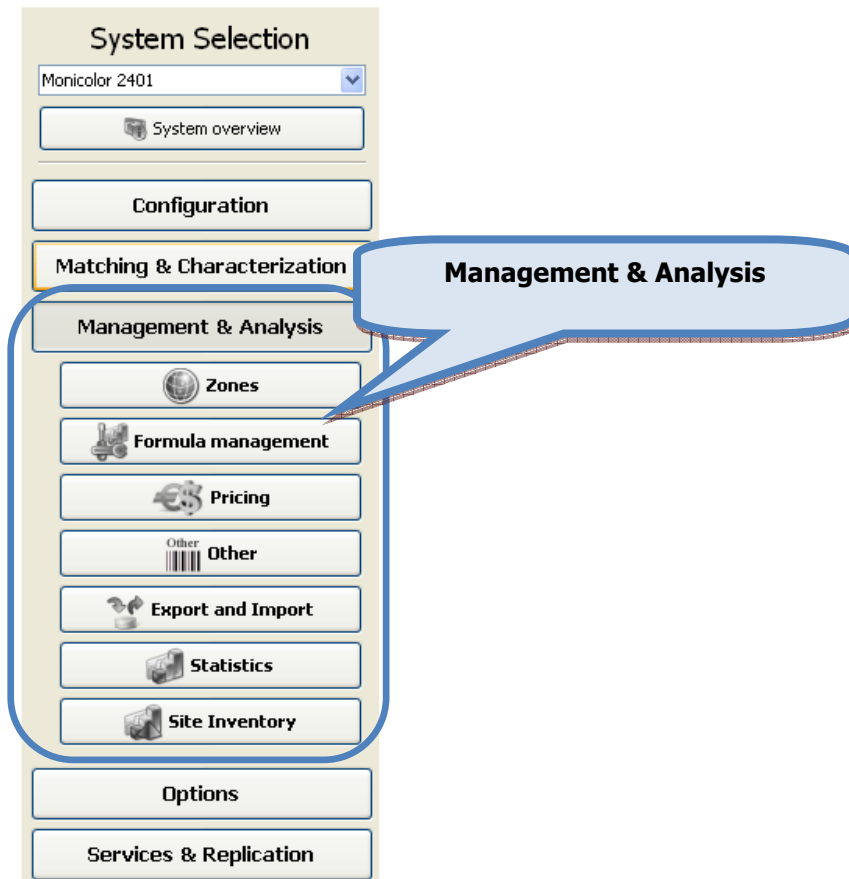
1.Enable the check box **Selected** to select a color card.

2.Click the **Start** button.



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

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

Zones page has three sub pages, in which you can:

- Set products to zones
- Set groups to zones
- Set color cards to zones

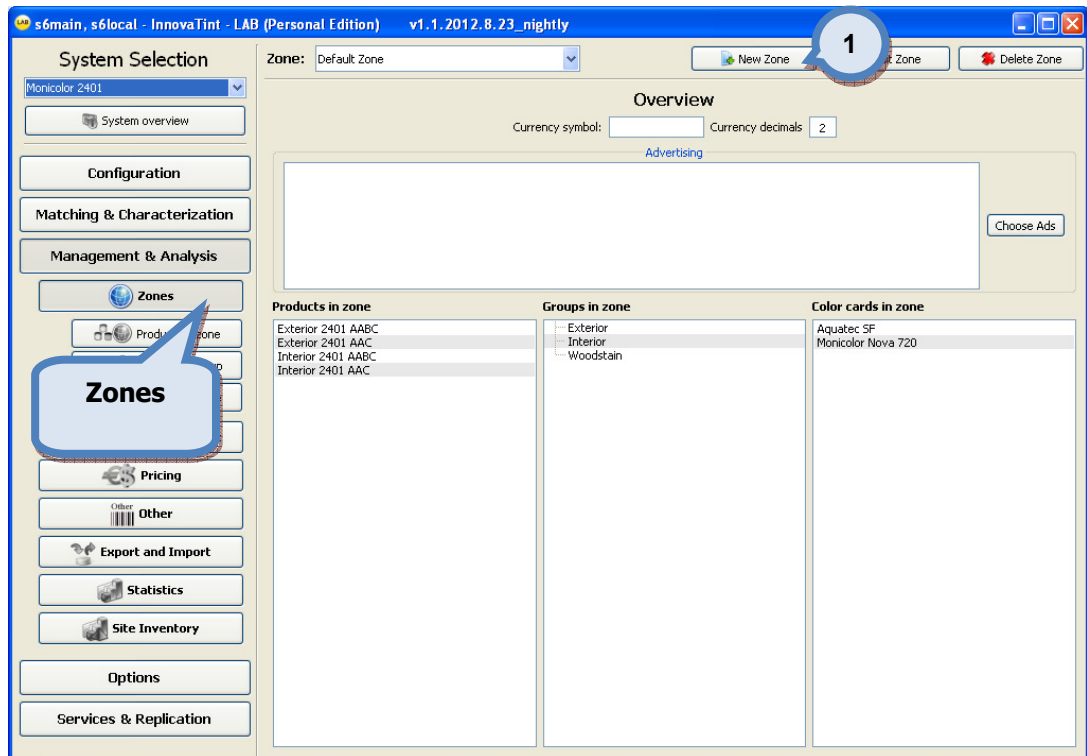
With the zone function, you can create the combinations of the products, the colorants, and the color cards to be used in the predefined zones. When the predefined zone is selected for the InnovaTint Shop installation package, user cannot see other products, colorants, or color cards, which do not belong to this zone. This function allows you to create the pre-set combinations for the resellers, the distributors, as well as for the individual POS agents. You can also give the alternative names of the products, colorants, and color cards (and colors within color card), to be used in zones in this section. For all of the 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.

The zones can also be set by a paint company. And the zone setup can be done based on the geographical location or by customers. And finally, the zones do not have any internal hierarchy among others.

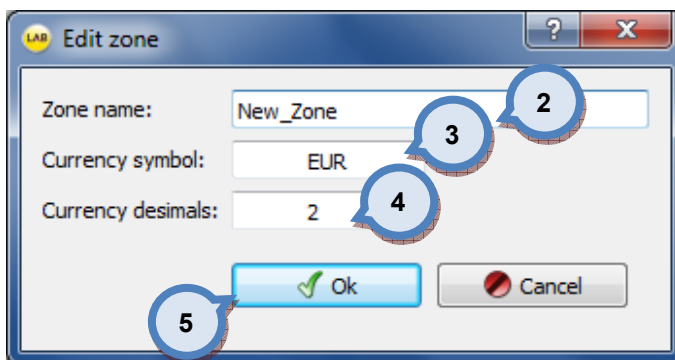
4.1.1 Create a new zone

To create a new zone, navigate into the **Management & Analysis** ⇒ **Zones** page.



1. Click the **New Zone** button. 

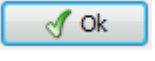
The **Edit zone** window opens up:



2. Enter the **name** for the zone.

3. Enter the **Currency symbol** for the zone.

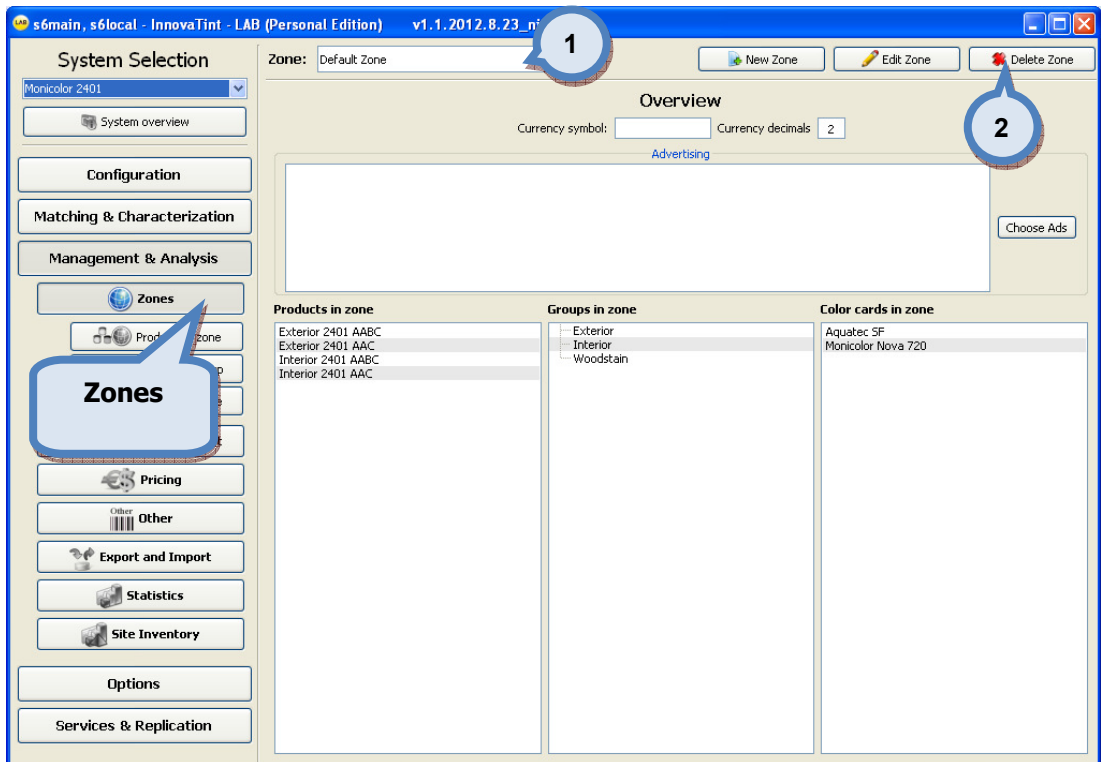
4. Select the **number of the decimals** displayed for currency in zone.

5. Click the **Ok** button. 

When you have created a zone name, you can proceed to **Products in zone**, **Products in group**, or **Color cards in zone** pages to define settings for your zone.

4.1.2 Delete an existing zone

To delete an existing zone, navigate into the **Management & Analysis** ⇒ **Zones** page.



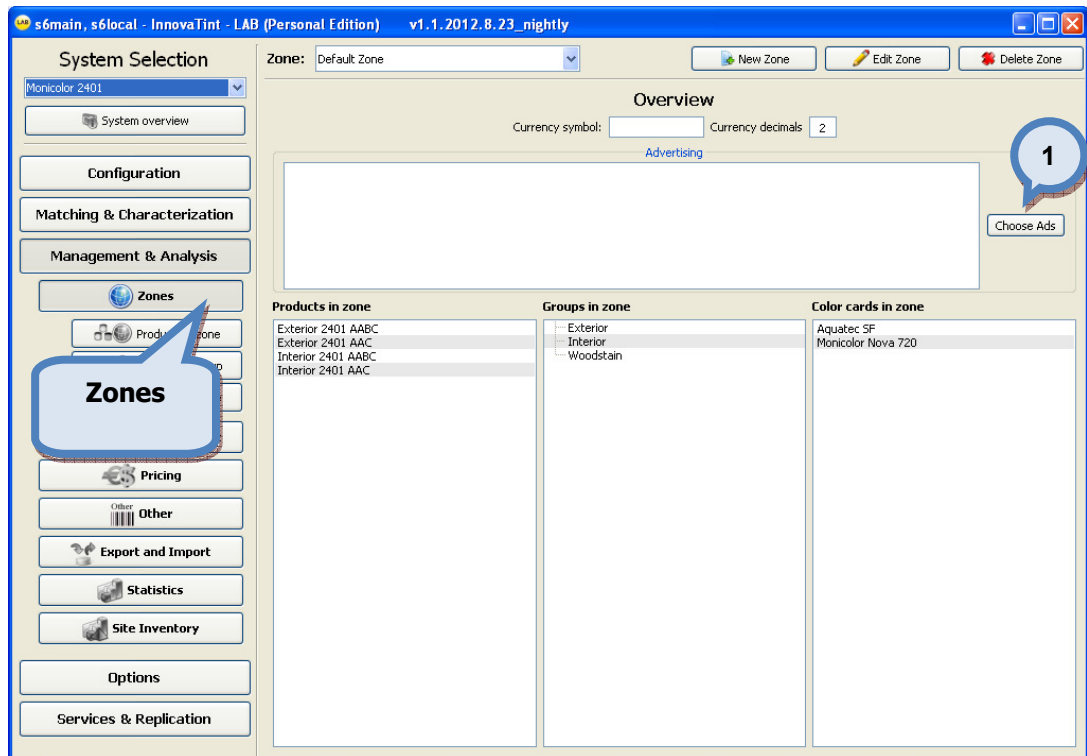
1. Select the **Zone** from the drop down list.

2. Click the **Delete** button.



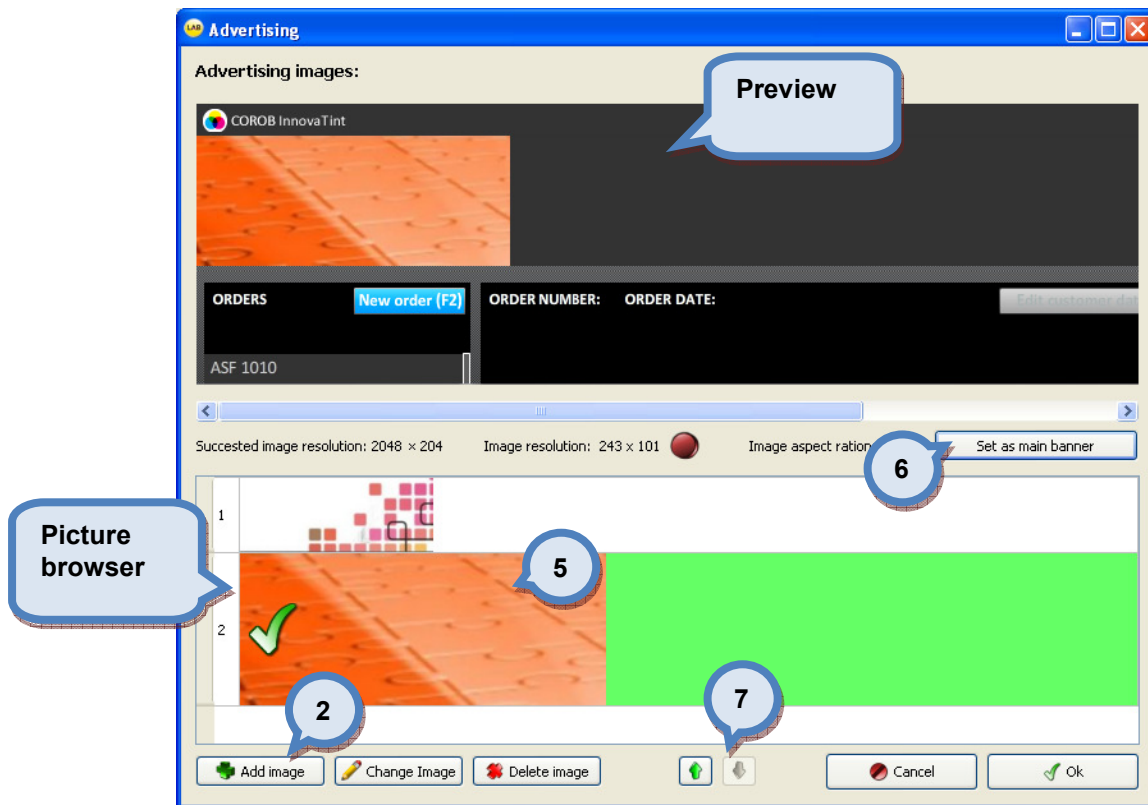
4.1.3 Set an advertising material

To set an advertising material, navigate into the **Management & Analysis** ⇒ **Zones** page.



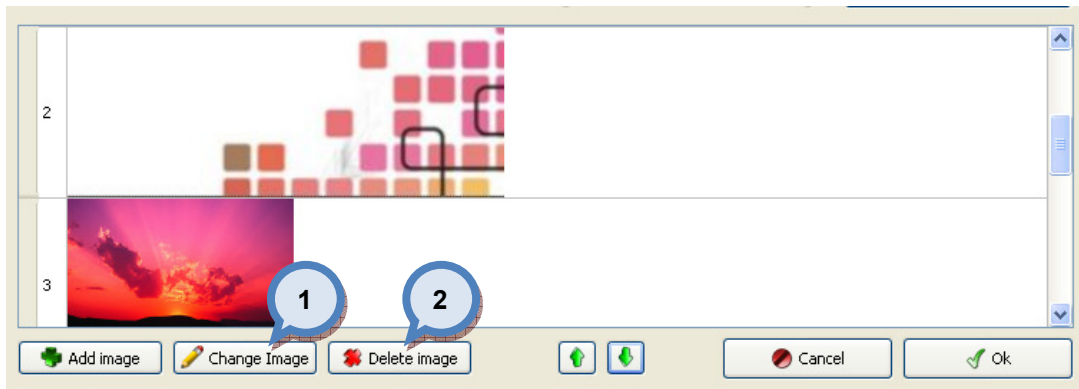
1. Click the **Choose Ads** button. 

The **Advertising** window opens up:



2. Click the **Add image** button.
3. Select a picture to be used for an add.
4. Picture is placed in to the picture browser.
5. Select a **picture** from the picture browser with left mouse button
6. Click on the **Set as main banner** button (preview of POS software main window is displayed on the upper part of the window).
7. Use the arrow button to adjust the order of the pictures in the list. The order of the pictures in the list is the same order in which the pictures are displayed in the POS software banner area.

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.



To change main banner image (this will replace current main banner image on the picture list with the new picture):

1.Click the **Change Image** button.

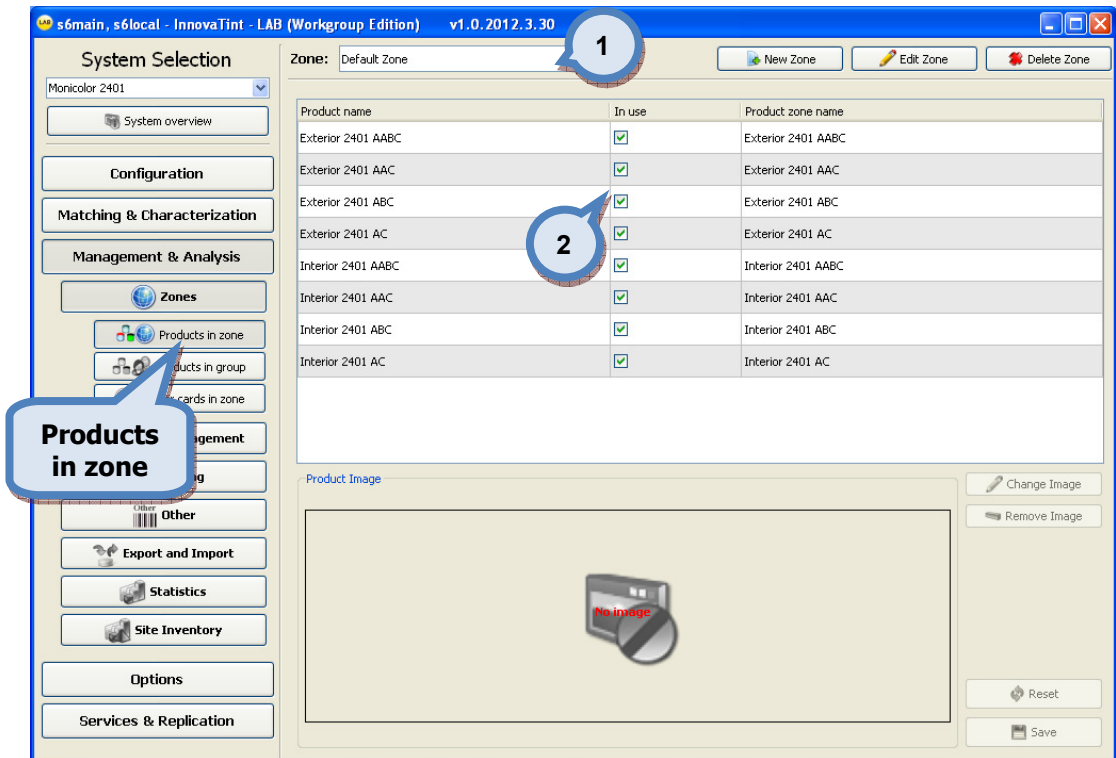
Note: If you want to replace main banner image with other picture already in the picture list, simply select a picture in the list and click the **Set as main banner** button.

To remove a image from the picture list:

1.Click the **Delete image** button.

4.1.4 Set a product to be included in a zone

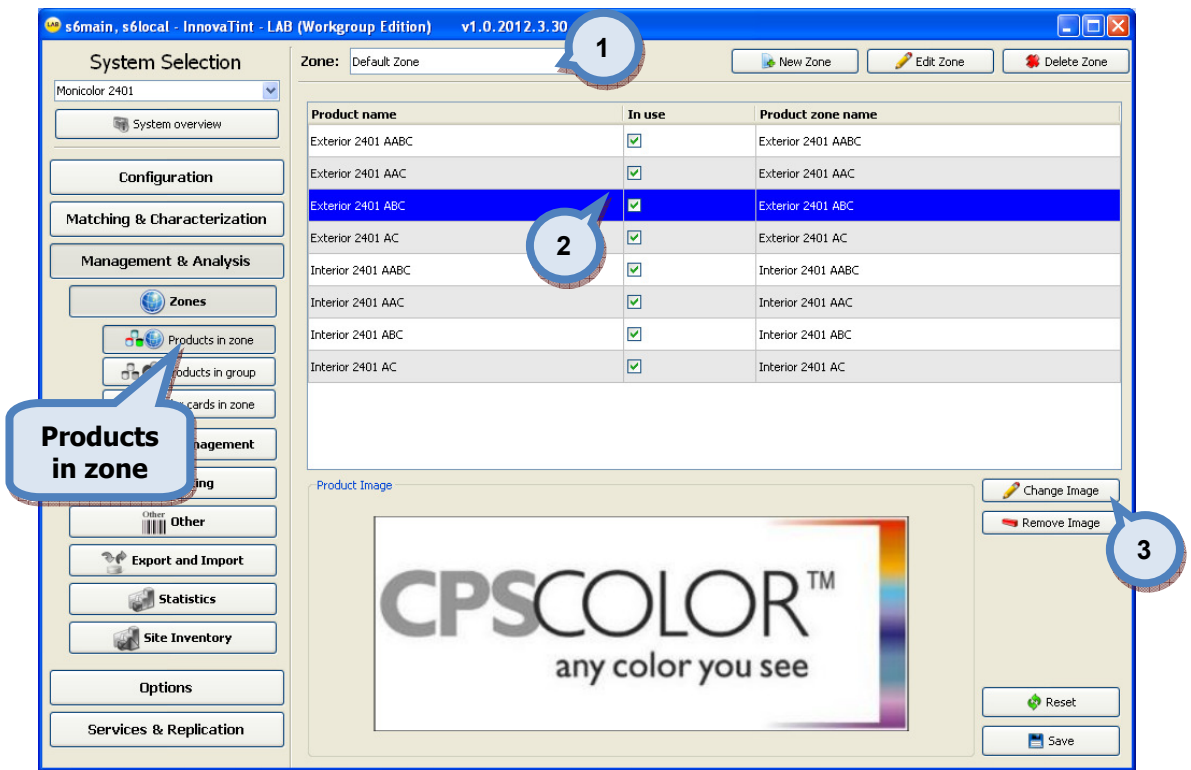
To set a product to be included in a zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Products in zone** page.



1. Select the **zone** from the drop down list.
2. Enable check box **In Use** of product to be included in the zone.
3. Edit product name in **Product zone name** column if you like to display alternative name for the product when the zone is selected.


Set a product image for the product in a zone

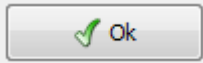
To set a product image for the product in a zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Products in zone** page.



1. Select the **zone** from the drop down list.

2. Select the **product** from the list.

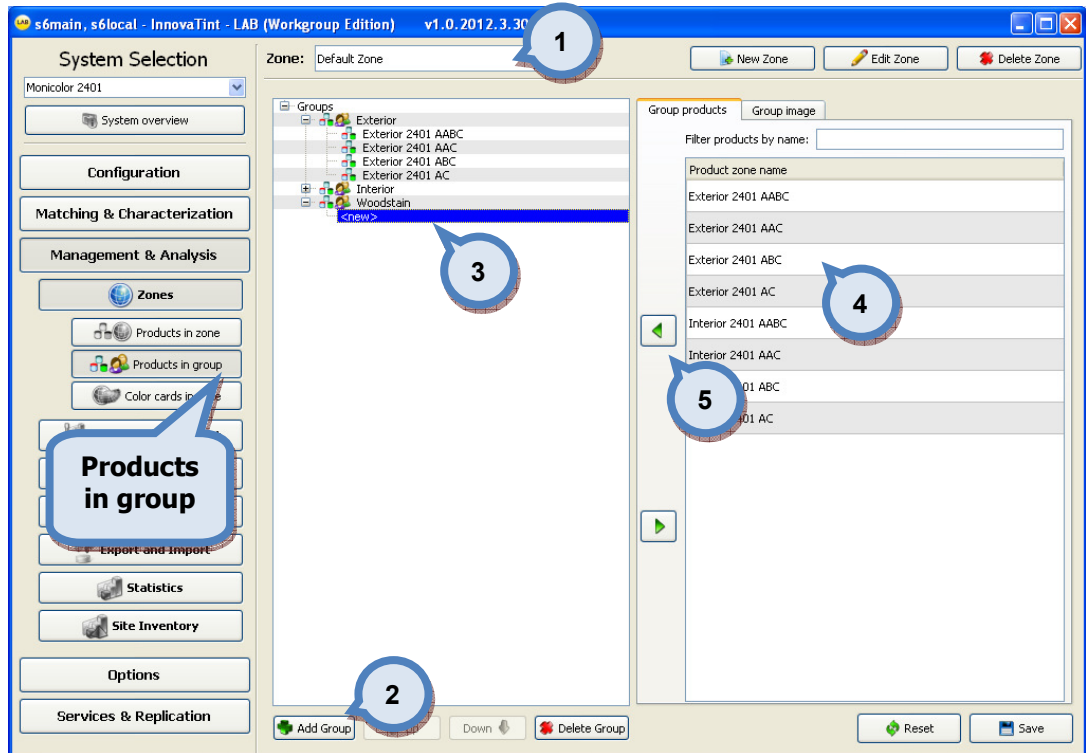
3. Click **Change Image** button to set the product image to be shown on screen with this product in this zone. 

4. Select **image** from browser opened, and click **Ok** button. 

4.1.5 Create a new product group into a zone

To create a new product group into a zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Products in group** page.

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.




1. Select the **Zone** from the drop down list.

2. Click the **Add Group** button. 

3. Enter the **name** for Product Group. Double click the <new> text to enable the text edit.

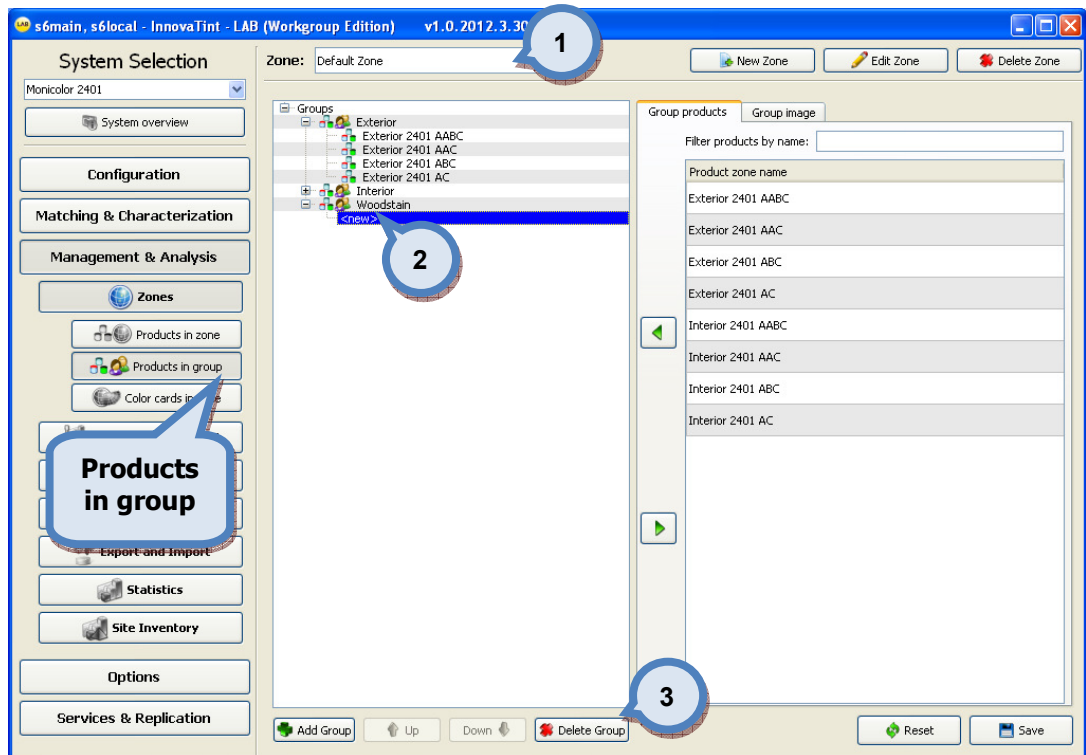
4. Select the **products** to be used in group from list (right side).

5. Click the arrow button  to move the **products** to groups list (left side).

6. Products appear on Group products list (left side).

4.1.6 Delete a product group in the zone

To delete a product group in the zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Products in group** page.



1. Select the **zone** from the drop down list.

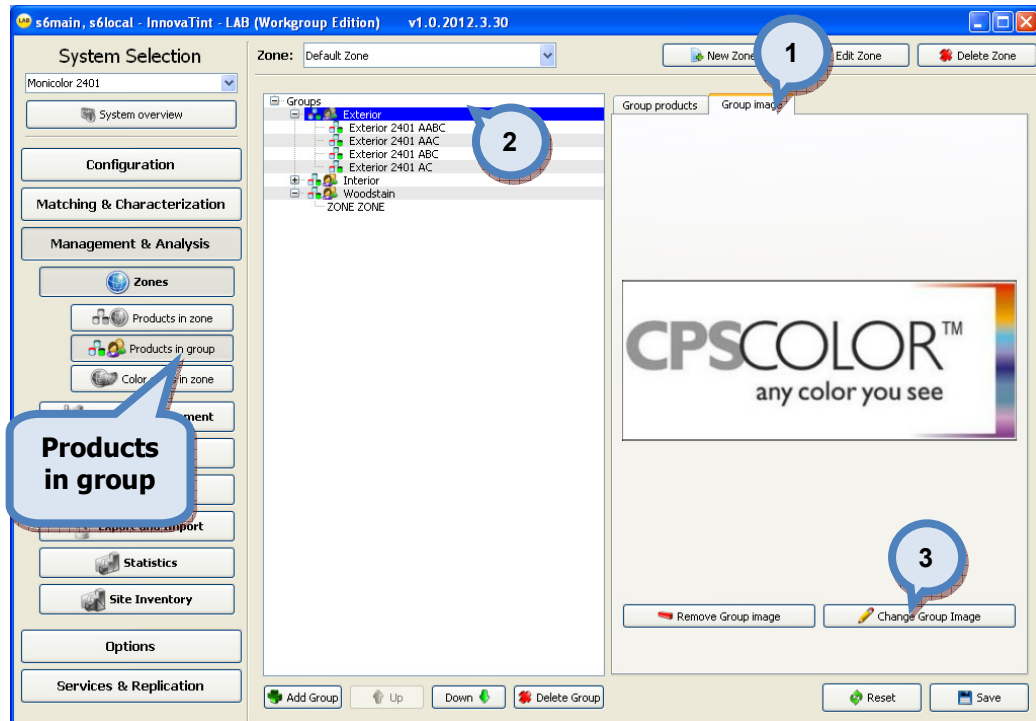
2. Select the Product Group **name** from the list.

3. Click the **Delete Group** button.



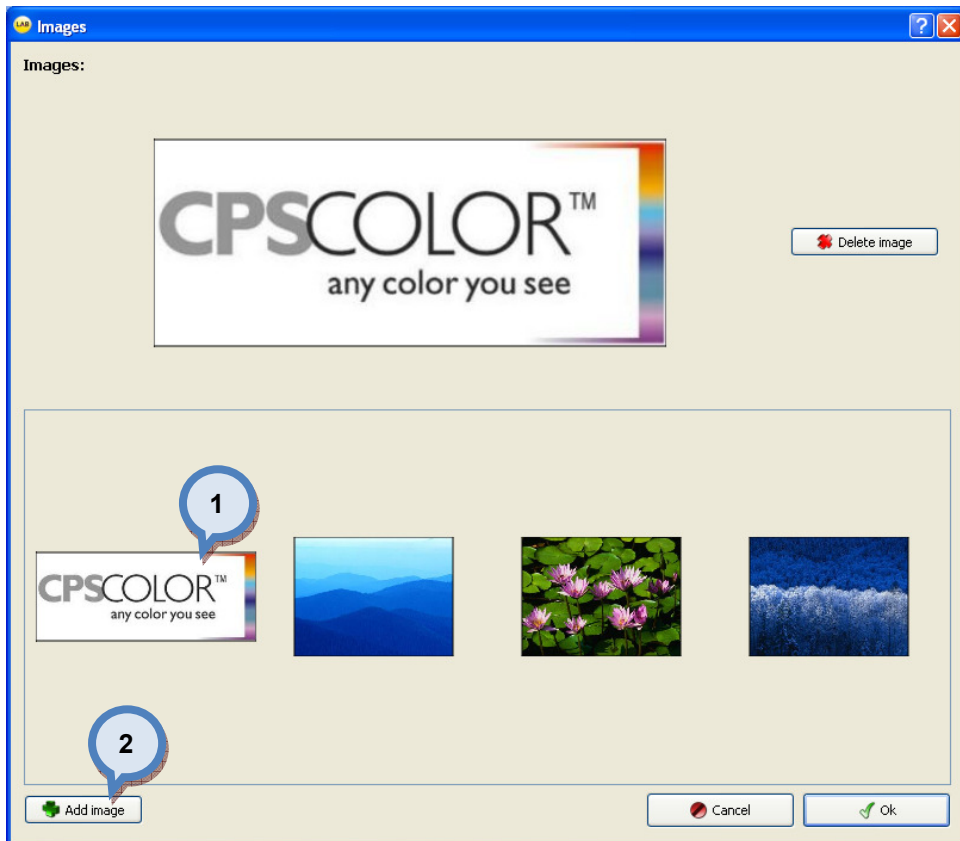
4.1.7 Change a group image

To change the group image in the zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Products in group** page.



1. Navigate to the **Group image tab page**
2. Select a **Group name** from the list.
3. Click the **Change Group Image** button.

The **Images** window opens up:



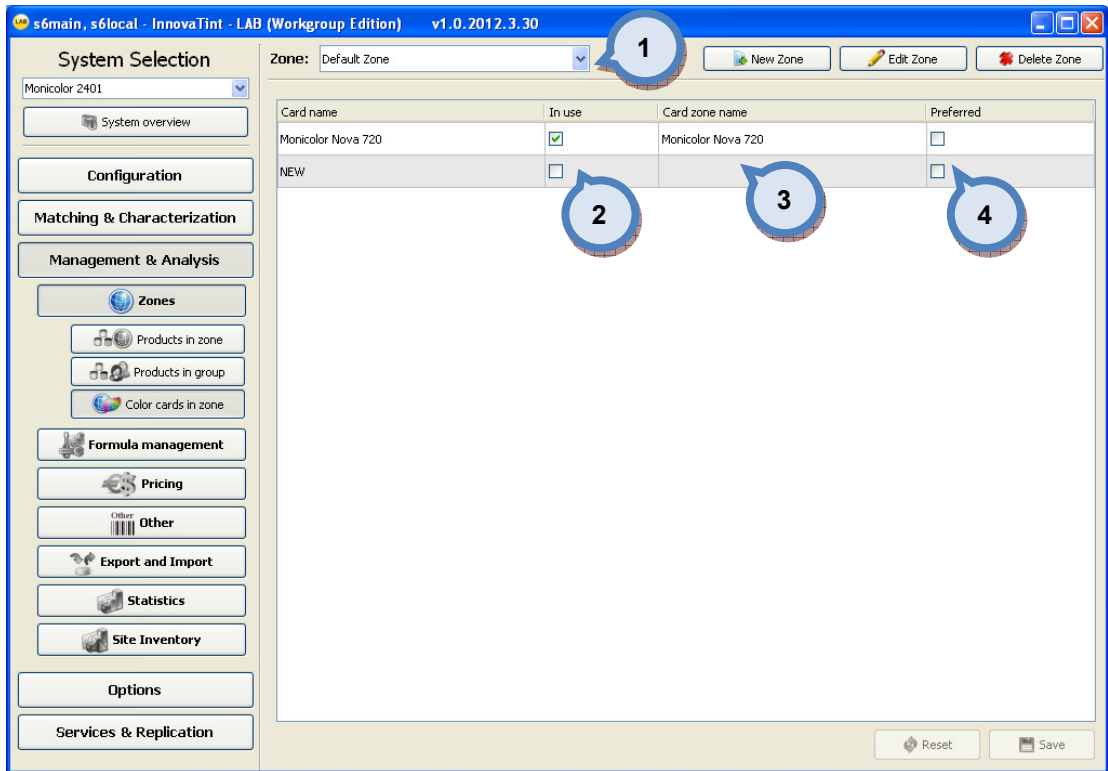
1.Select a **Image** from the picture view section and click **Ok** button

Or

2.Click the **Add image button** to add new images to the picture view section and click **Ok** button.

4.1.8 Add a color card to be used in a zone

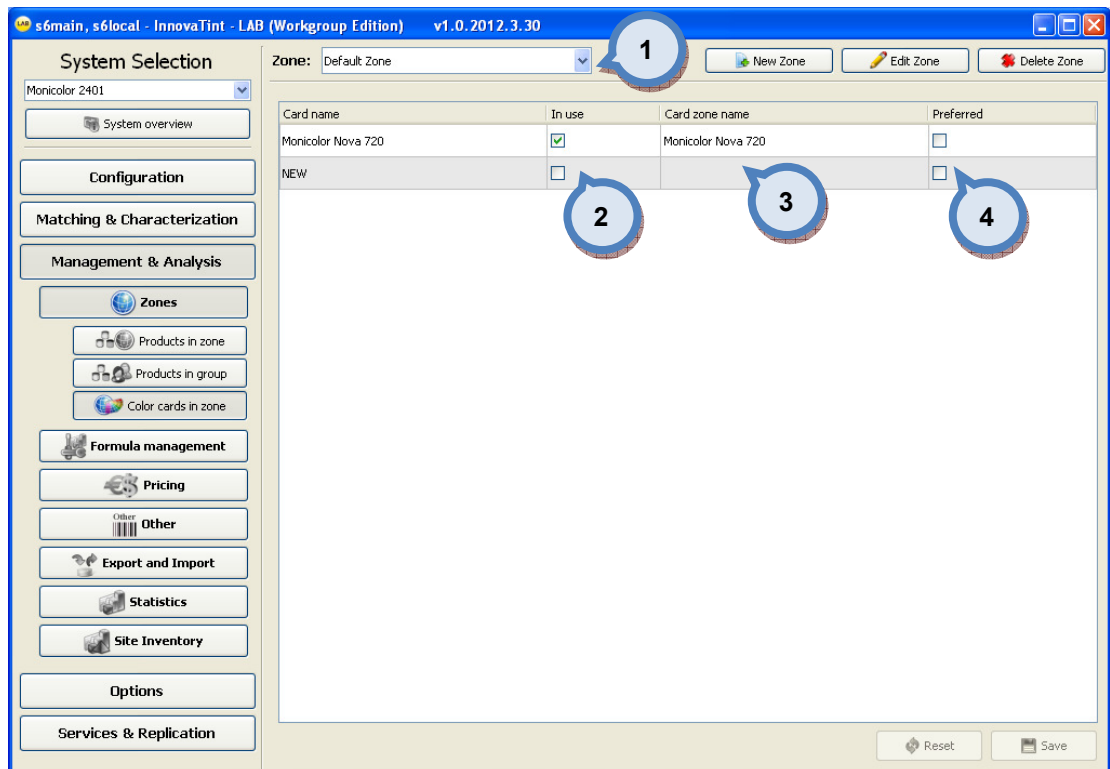
To add a color card to be used in the zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Color cards in zone** page.



1. Select the **zone** from the drop down list.
2. Enable the **In use** check box of the color card to be used in the zone.
3. Edit the name on the **Card zone name** column if needed.
4. Enable the check box **Preferred** to set the color card as the preferred color card.

4.1.9 Delete a color card from the zone

To delete a color card from the zone, navigate into the **Management & Analysis** ⇒ **Zones** ⇒ **Color cards in zone** page.



1.Select the **zone** from the drop down list.

2.Disable the **In use** check box of the color card to be used in the zone.

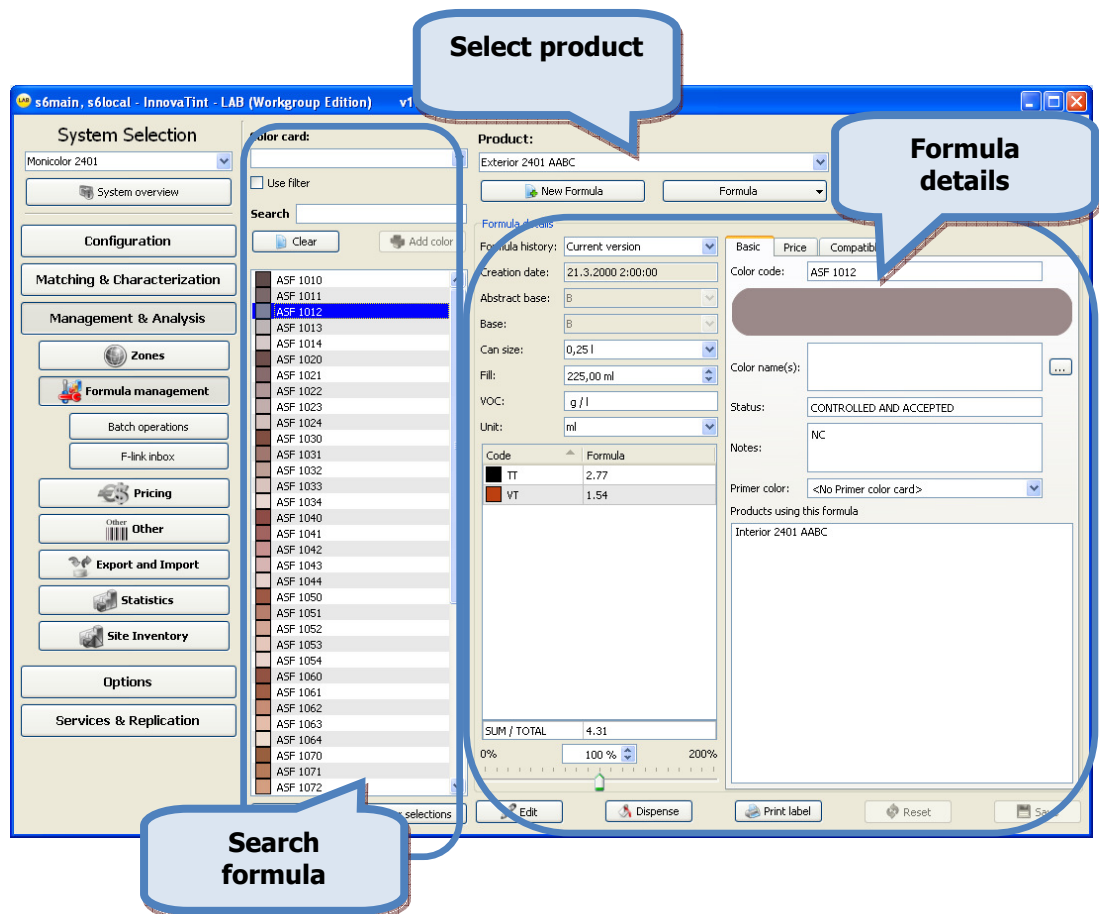
Note: this does not delete color card information from database, it only disables color card from this zone.

4.2 Formula management

In formula management page you can:

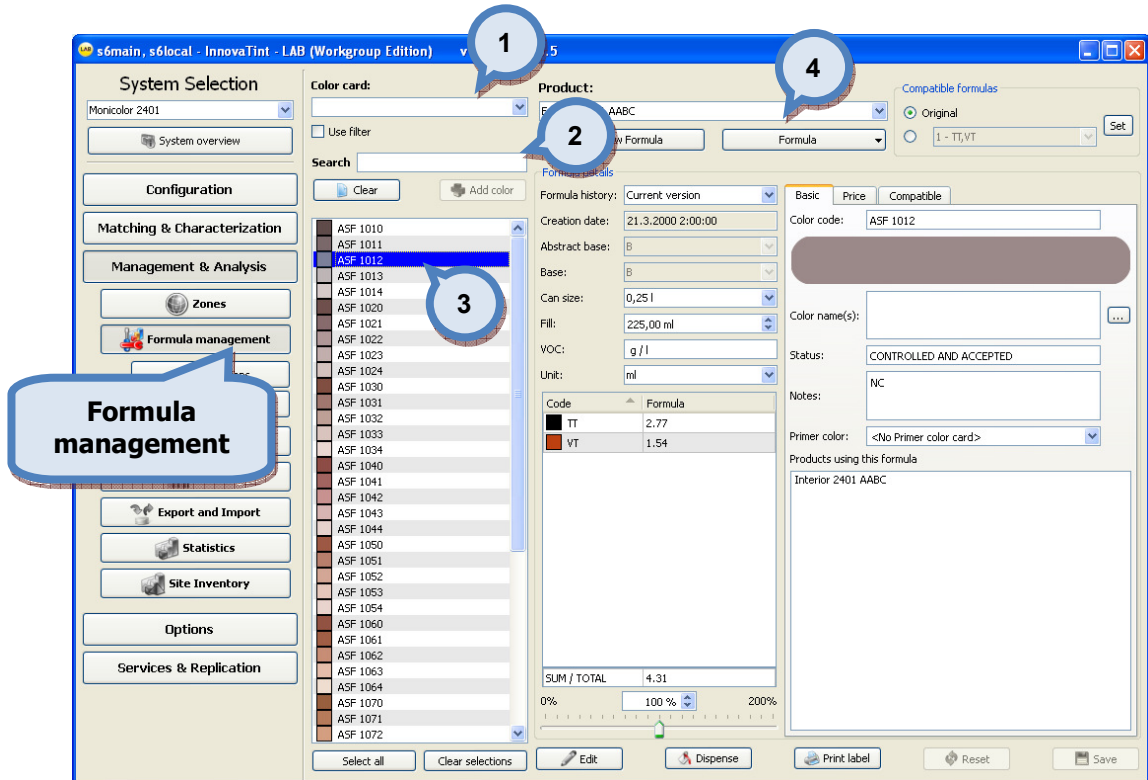
- Search formulas from database
- Create and edit formula
- View formula history
- Set compatible formula when different products are sharing formulas
- View formula prices

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.



4.2.1 Search and view an existing formula

To search and view an existing formula, navigate into the **Management & Analysis** ⇒ **Formula management** page.



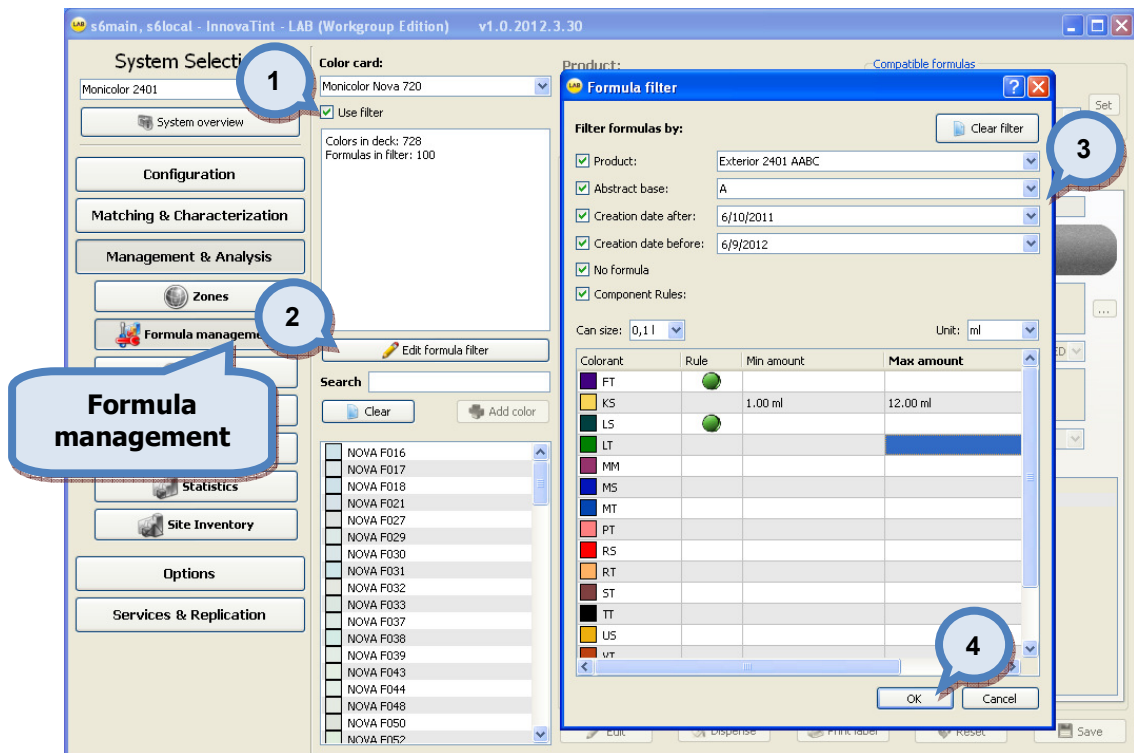
1. Select the color card from the **Color card** drop down list
2. Use the **search** function and/or
3. Select the **code** from the list below.
4. Select the **product** from the drop down list

Note: Into the search box, you can either type the complete color code or the color name, or only part of the code or the name.

4.2.2 Search a formula with the filter function



To search a formula with the filter function, navigate into the **Management & Analysis** ⇒ **Formula management** page.

To use more options to restrict the search results, you can use the filter function. The filter function allows you to narrow search to selected product, or to selected colorants and /or their amounts. You can also restrict you search by the creation date.



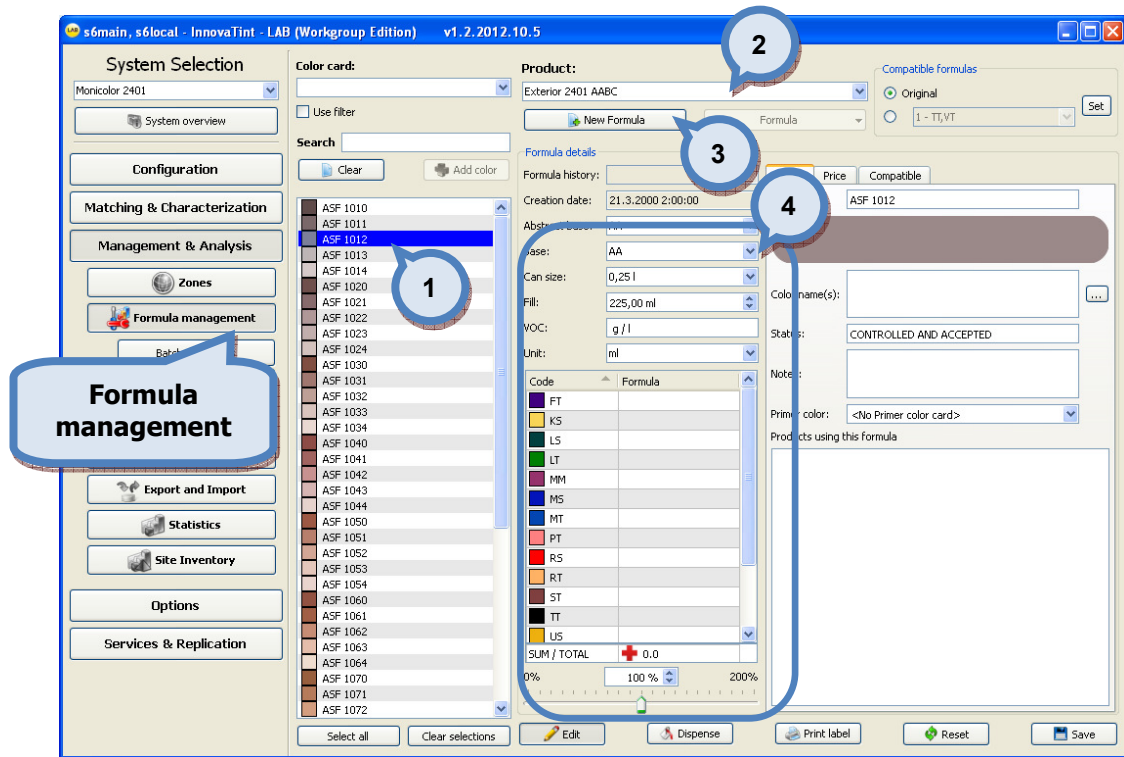
1. Enable the **Use filter** check box.
2. Click the **Edit formula filter** button.
3. Select needed the **filter criteria** from the pop-up window.
4. Click the **Ok** button.

Filter criteria can be:

- Product
- Abstract base
- Creation date (before or after certain date)
- No formula (the colors for which no formula exist in the database).
- Minimum or maximum amount of any colorant
- Rule: Colorant must be included = green symbol 
- Rule: Colorant not to be included = red symbol 

4.2.3 Create a new formula

To create a new formula, navigate into the **Management & Analysis** ⇒ **Formula management** page.





1. **Search** and **select** the formula code from the list.
2. Select the **product** from the drop down list.
3. Click the **New formula** button.
4. Add the **formula and other details** as you wish


Note: If you wish to set this same formula to be used with other products, see instructions for the compatible formula on section: 4.2.5 Use same formula with different products.

When colorant amounts entered in to the formula do not match to the product or systems specific rules the following symbols are displayed in the formula table:

Code	Formula	
KS	30.0	+
MS	10.0	●
ST	10.0	●
LS	0.25	-
FT		
LT		
MM		
MT		
PT		
RS		
RT		

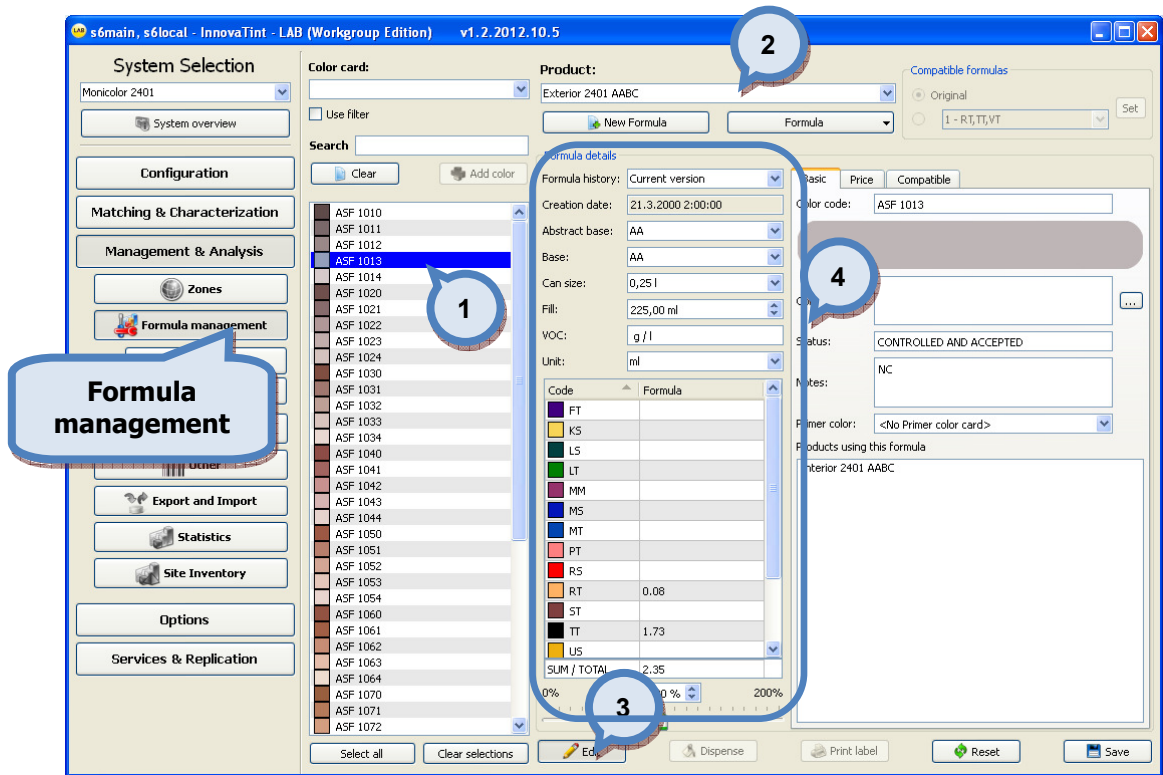
 The red button is displayed when non-acceptable colorant pair is used (as set in the System specific rules, see further instructions in the section 3.2.1).

 The red plus symbol is displayed when the colorant amount is bigger than the upper limit set for the colorant (as set in the Product specific rules, see further instructions in the section 3.2.3).

 The red minus symbol is displayed when the colorant amount is smaller than the lower limit set for the colorant (as set in the Product specific rules, see further instructions in the section 3.2.3).

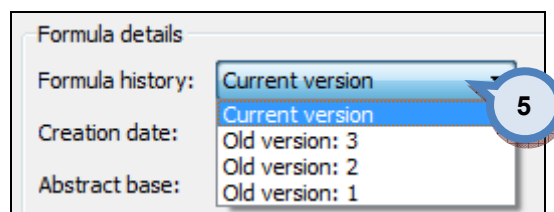
4.2.4 Edit an existing formula

To edit an existing formula, navigate into the **Management & Analysis** ⇒ **Formula management** page.



1. **Search** and **select** the formula code you wish to edit.
2. Select the **product** you wish to edit.
3. Click the **Edit** button.
4. Make **changes** to the formula or other details as you wish.

Note: By editing the formula, you will create a new formula version. The older version(s) can be browsed by selecting the older version from **formula history** (5) drop down box.

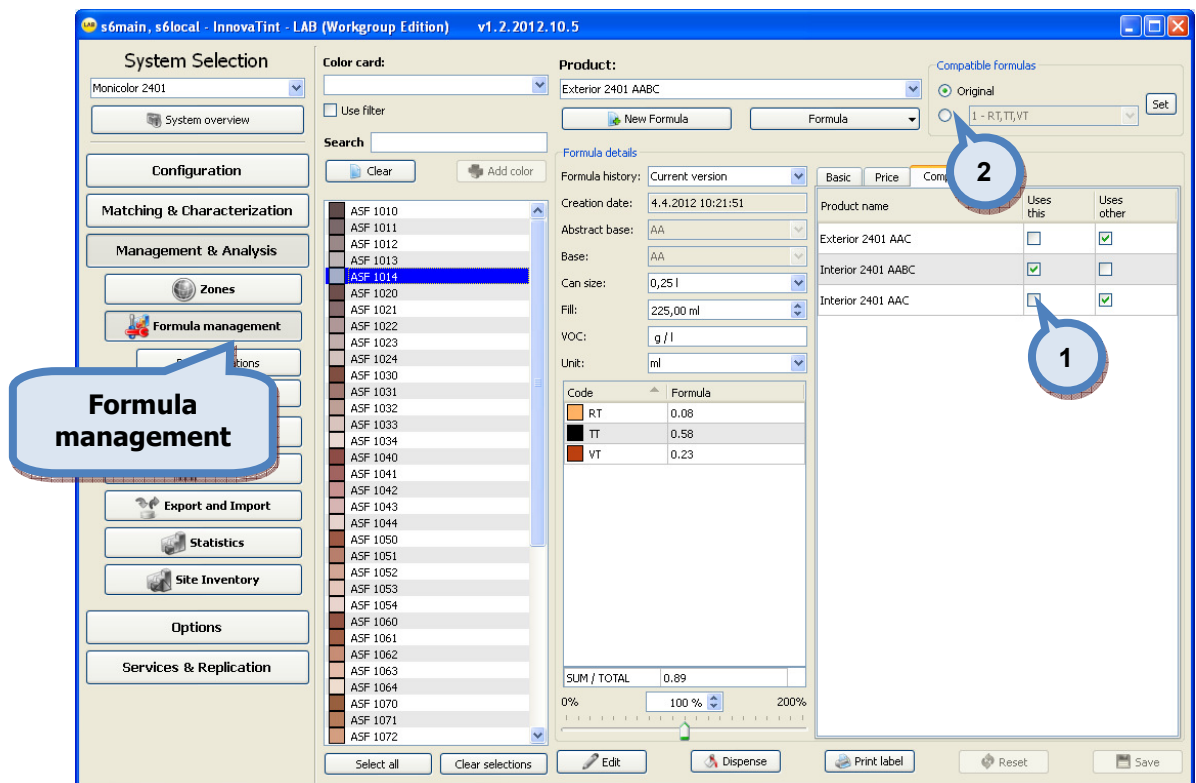


Note: The same color code can have different alternative formula for the different products. The alternative formulas are handled with the **Compatible** tab. See the description of these functions on following page.

4.2.5 Use same formula with different products

To set a color formula to be used with other products, navigate into the **Management & Analysis** ⇒ **Formula management** page.

The same color code i.e. the color in a color card, can have different color formula for different products, or same color formula can be used for all or some of the products. If different products have same (abstract) base(s), color formula can be shared. This is handled with Compatible products function (found in Compatible tab page). On this section is shown all products which have same (abstract) base(s) as product which is now selected. When **Uses this** check box is enabled this formula is used, and when **Uses other** check box is enabled, alternative used formula is currently for this product.

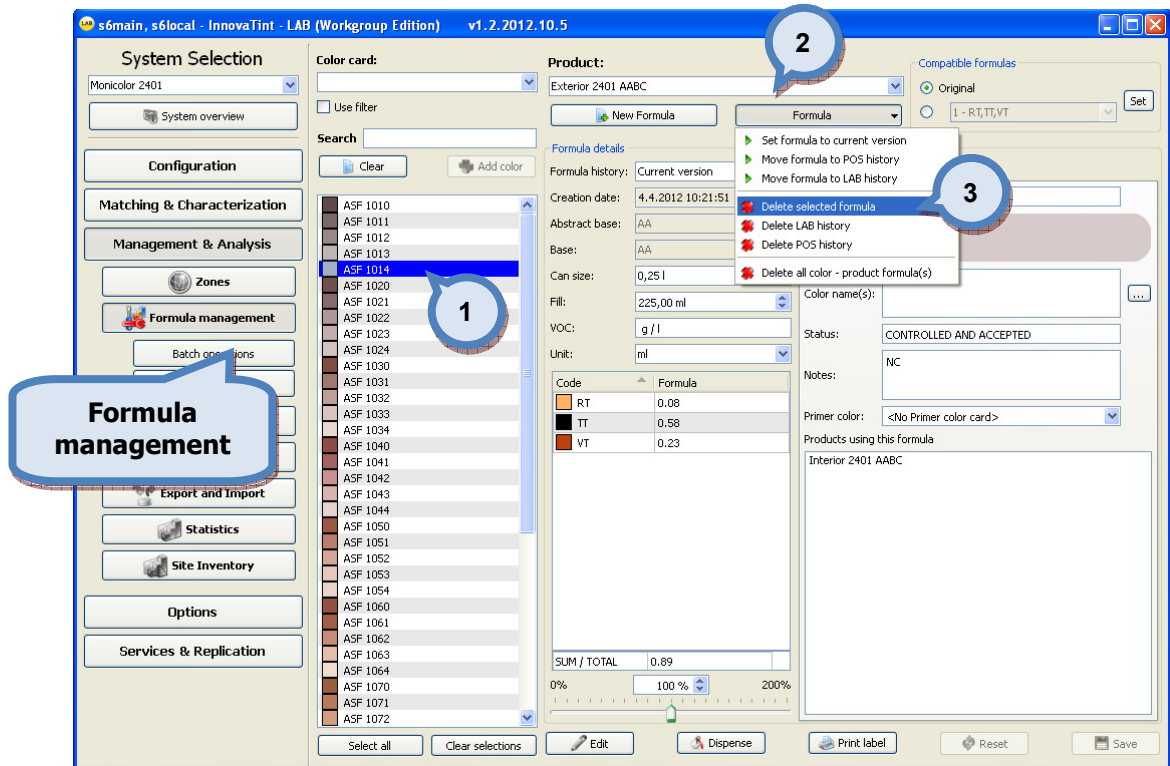


1.Enable **Uses this** check box to use this formula with selected product.

2.Enable radio button to view (select formula from the drop down list) to view alternative formula and products used with the one.

4.2.6 Delete an existing formula

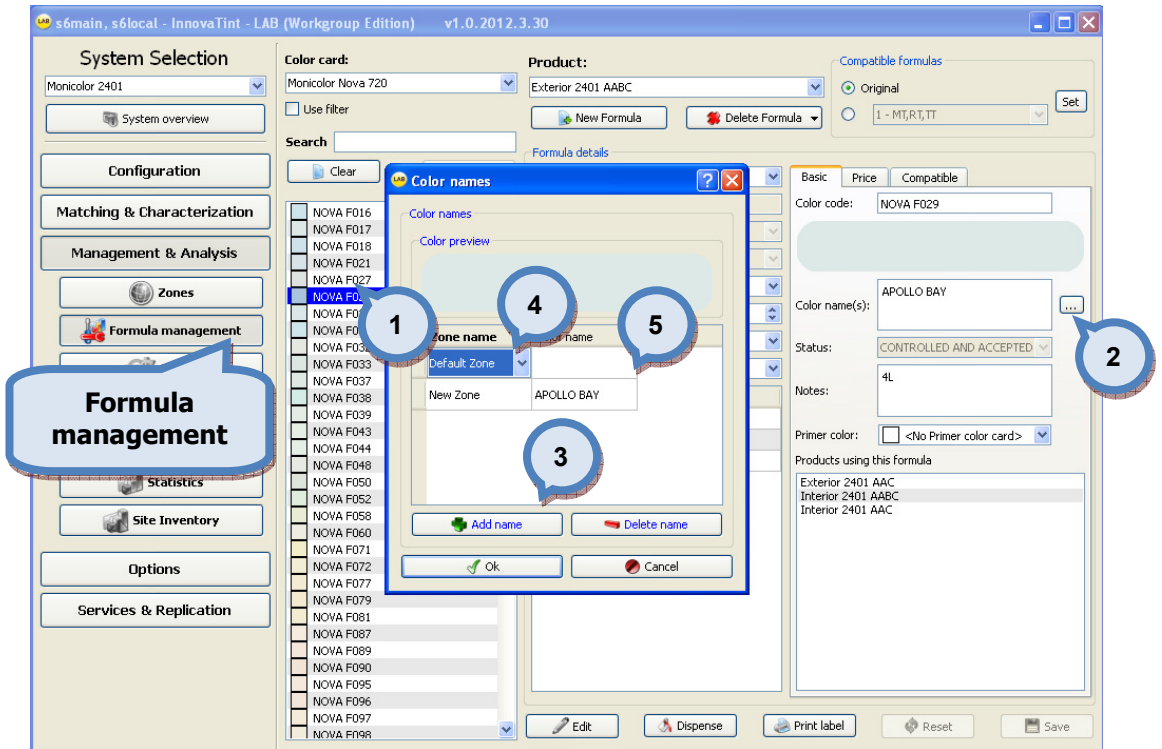
To delete an existing formula, navigate into the **Management & Analysis** ⇒ **Formula management** page.


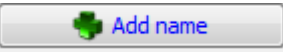


1. Search the **Color code** you wish to delete.
2. Select the **Product** from drop down list
3. Select the **Delete selected formula** option from the **Formula** drop down list.

4.2.7 Set a color name for the color code

To set a color name for the color code, navigate into the **Management & Analysis** ⇒ **Formula management** page.



1. Search the **Color code** you wish to edit.
2. Click the  button.
3. Click the **Add name**  button.
4. Select the **zone** from the drop down list.
5. Enter the **name** into the Color name column.

4.3 Pricing

To set pricing for colorants, paint cans, and base paints, select **Management & Analysis** ⇒ **Pricing**

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 in the main db, and in the local db.

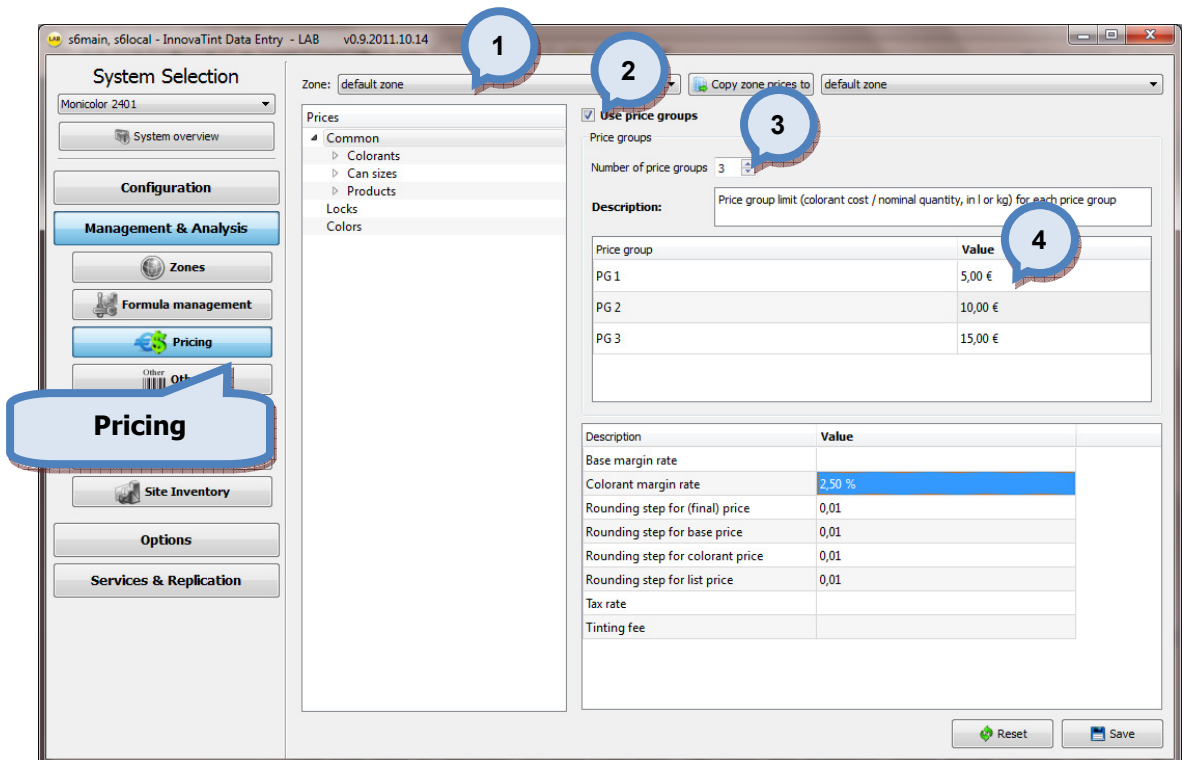
If the same parameter is found in multiple tables, the value from the highest priority is used. Parameter priority can be easily seen from the price tree on picture above, where Common – level has lowest priority and when navigating to lower levels on tree, parameters will over rule parameters on higher levels.

Price groups can be used to simplify price lists, or to allow for independent treatment of cheap and expensive colors. The basic idea is to round the price of tinting upwards to a few predefined levels. The Price groups are meant to allow the user to create a system that sets the prices to fixed levels inside set price ranges.

4.3.1 Set the price groups

To set pricing rules for colorants, paint cans, and base paints, select **Management & Analysis** ⇒ **Pricing**

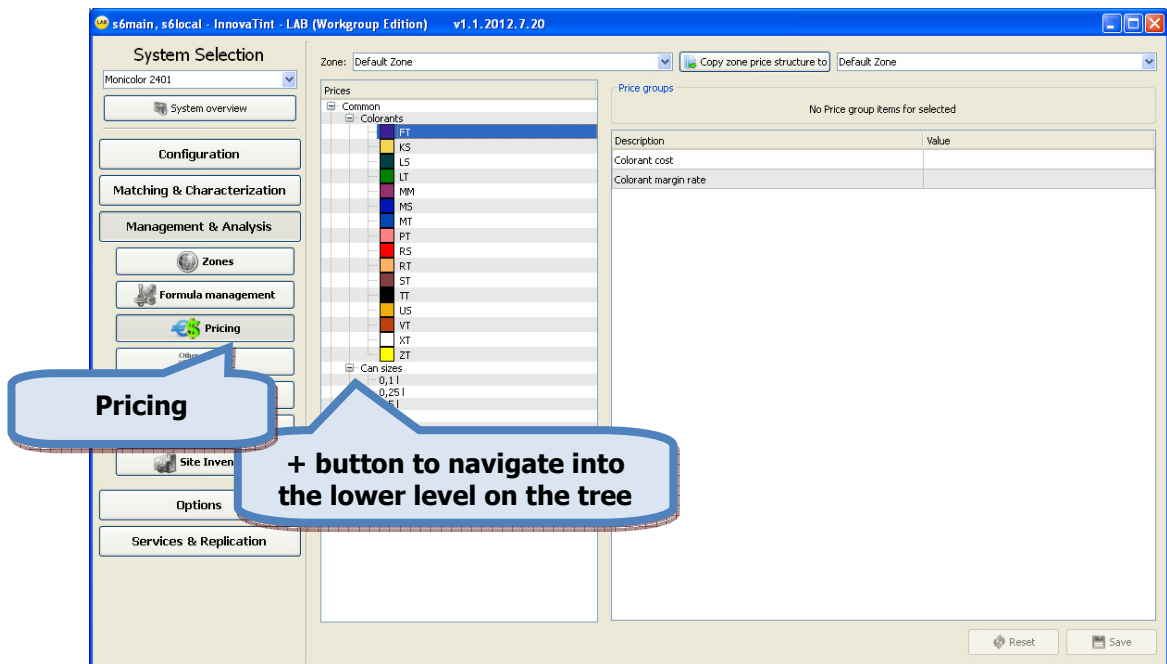
To use the **price groups**:



1. Select **zone** from drop down list
2. Enable check box **Use price groups**
3. Select **number of price groups**
4. Enter values for **price group limits**

4.3.2 Set pricing rules for Colorants, can size, and products

To set pricing rules, navigate into the **Management & Analysis** ⇒ **Pricing** page.



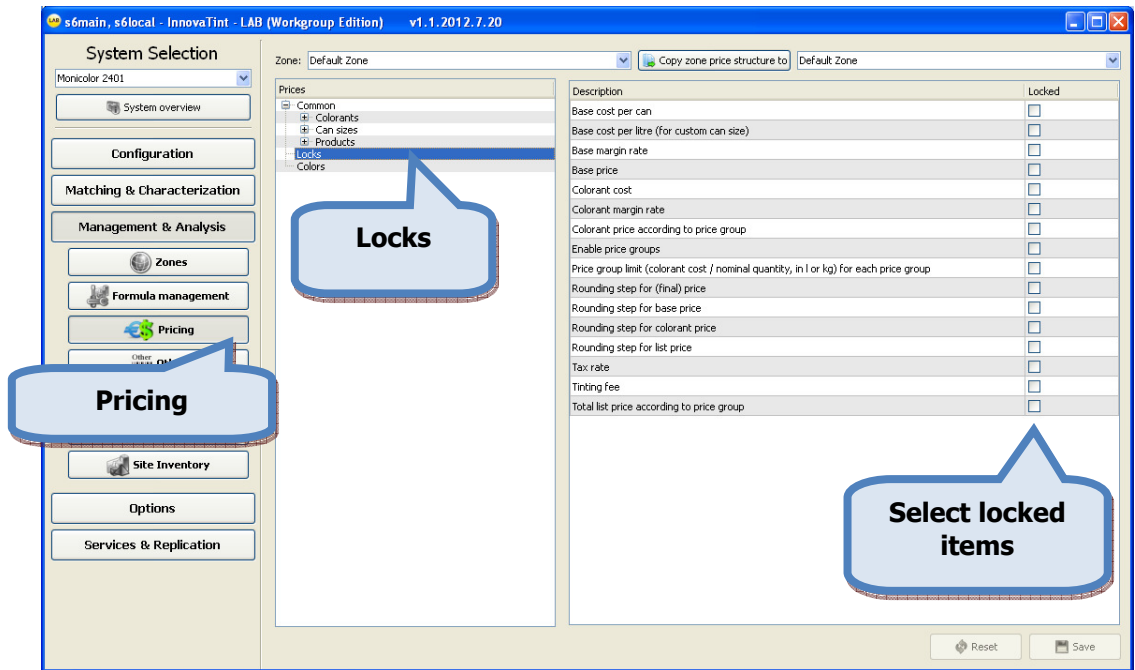
Use tree view to navigate through colorants, can sizes and products. Using + symbol, you can view sub items on each category, like under colorants you will find each of single colorants, and its cost and margin information.

Note: See InnovaTint User manual for further instructions on pricing items.

4.3.3 Set locks for the pricing items

To set locks, navigate into the **Management & Analysis** ⇒ **Pricing** page.

In the locks section you can set each of price factor to be locked for editing on shop location with limited user rights.

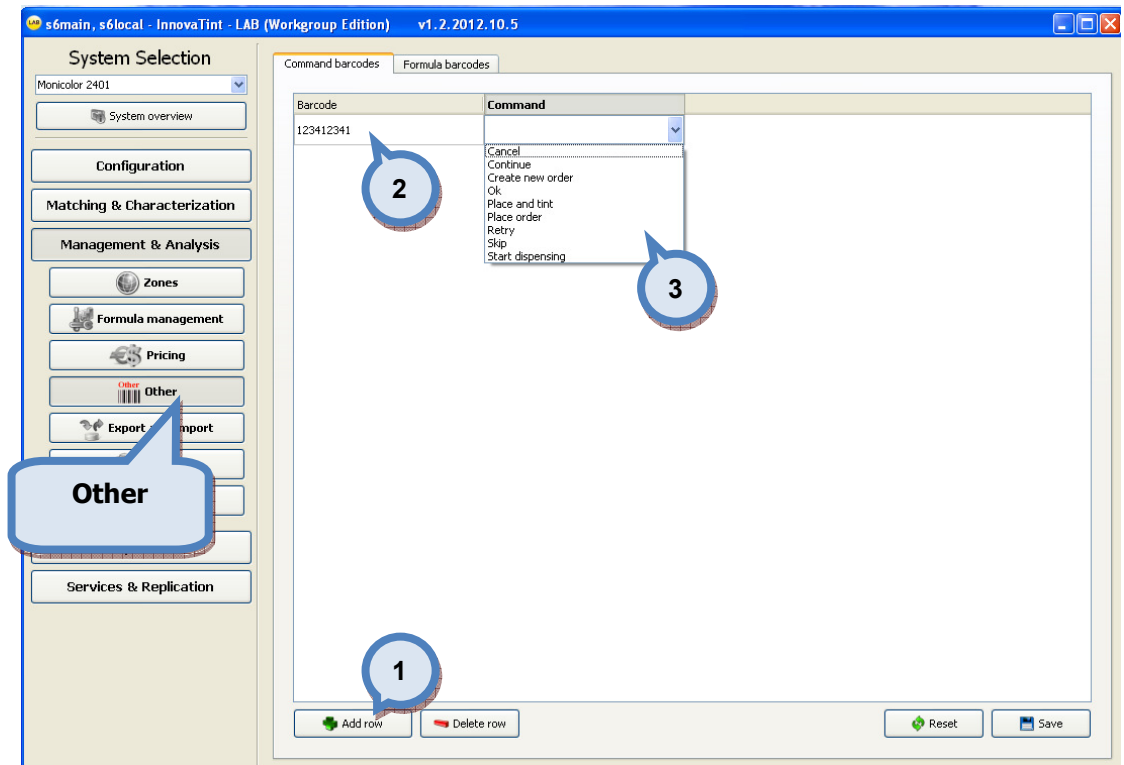


Note: See InnovaTint User manual for further instructions on pricing items.

4.4 Bar codes

4.4.1 Add a new bar code

To add a new bar code, navigate into the **Command barcodes tab** page of the **Management & Analysis** ⇒ **Other** page.



1. Click the **Add row** button.

2. Enter the **barcode** to the empty row on the Barcode column.

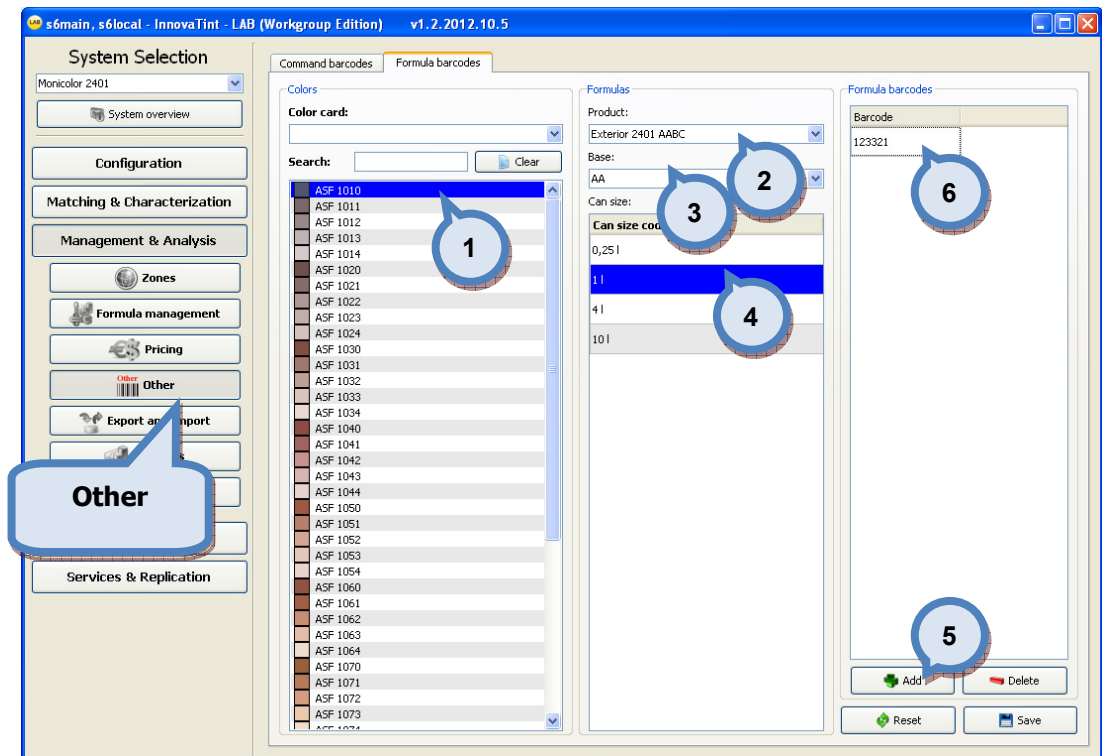
3. Select the command to be executed when the bar code is read to from the drop down list **Command column**

The command options are:

- Cancel
- Continue
- Create new order
- OK
- Place and tint
- Place order
- Retry
- Skip
- Start dispensing

4.4.2 Add a new bar code for color-product-base paint-can size combination

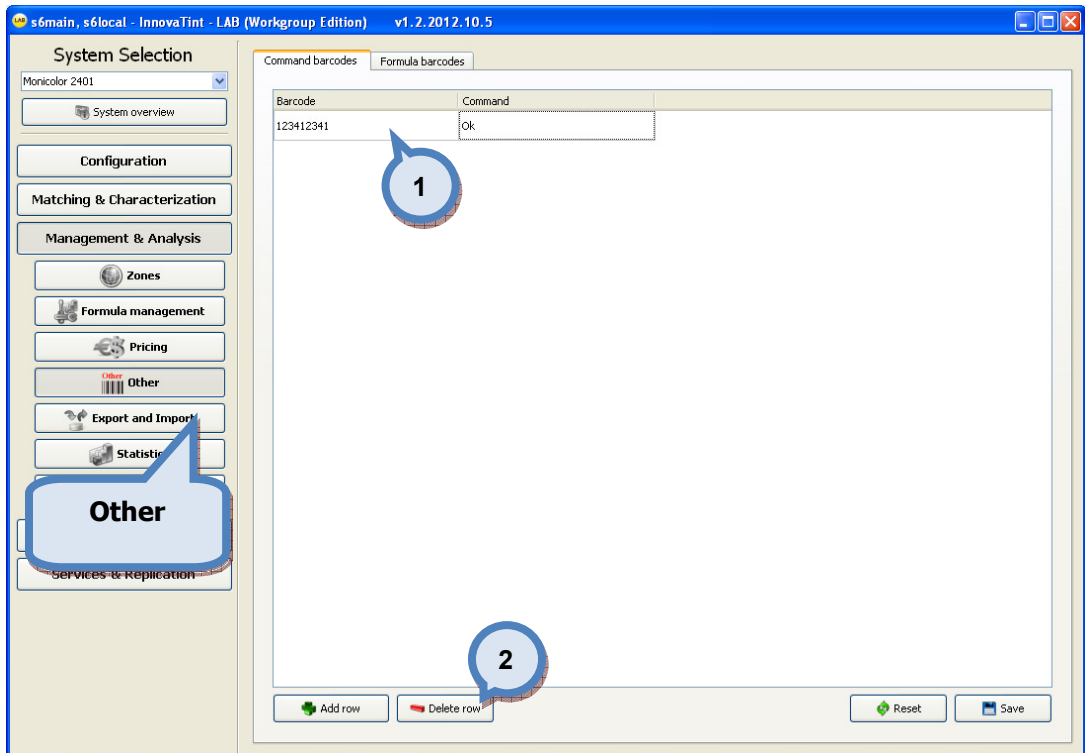
To add a new bar code, navigate into the **Formula barcodes** tab page of the **Management & Analysis** ⇒ **Other** page.



1. Select a **color code**. You can use color card selector and search fields to narrow down the list of the colors in the selector list.
2. Select a **product** from the drop down list.
3. Select a **base** paint from the drop down list.
4. Select a **can size** from the table.
5. Click the **Add** button.
6. Enter the **barcode** to the empty row on the Barcode column.

4.4.3 Delete a bar code

To add a new bar code, navigate into the **Command barcodes** tab page of the **Management & Analysis** ⇒ **Other** page.



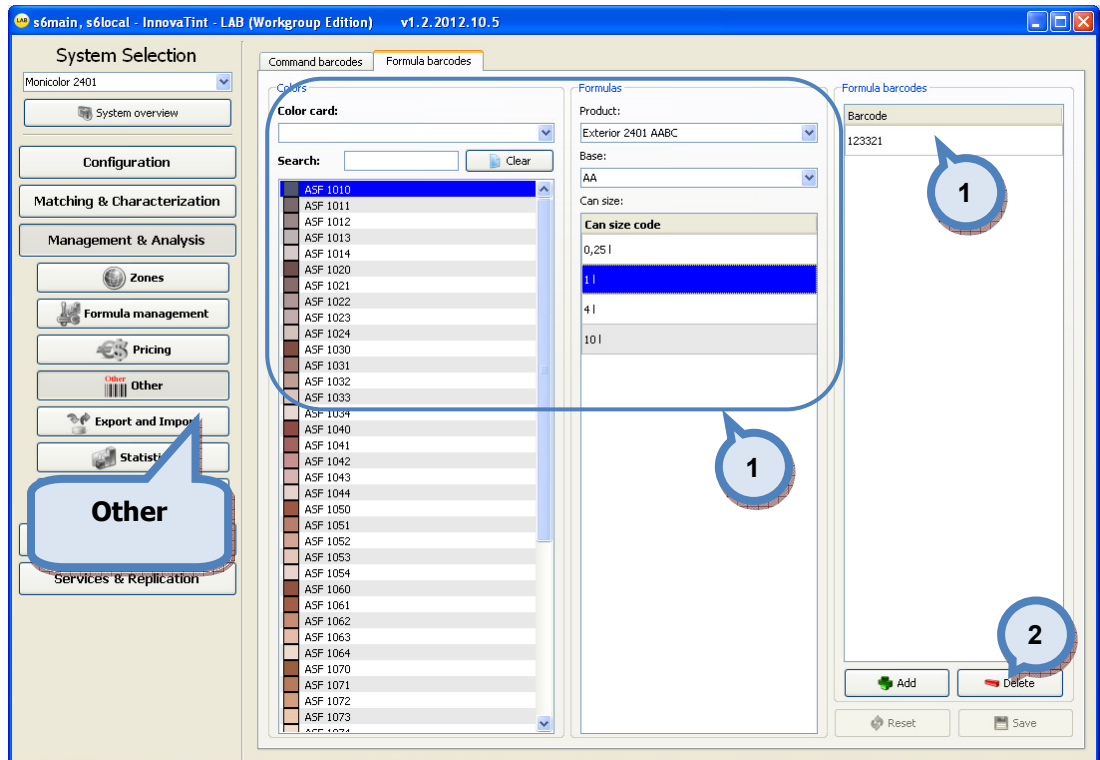
1. Select the **bar code** you wish to delete.

2. Click the **Delete row** button.



4.4.4 Delete a color-product-base paint-can size combination bar code

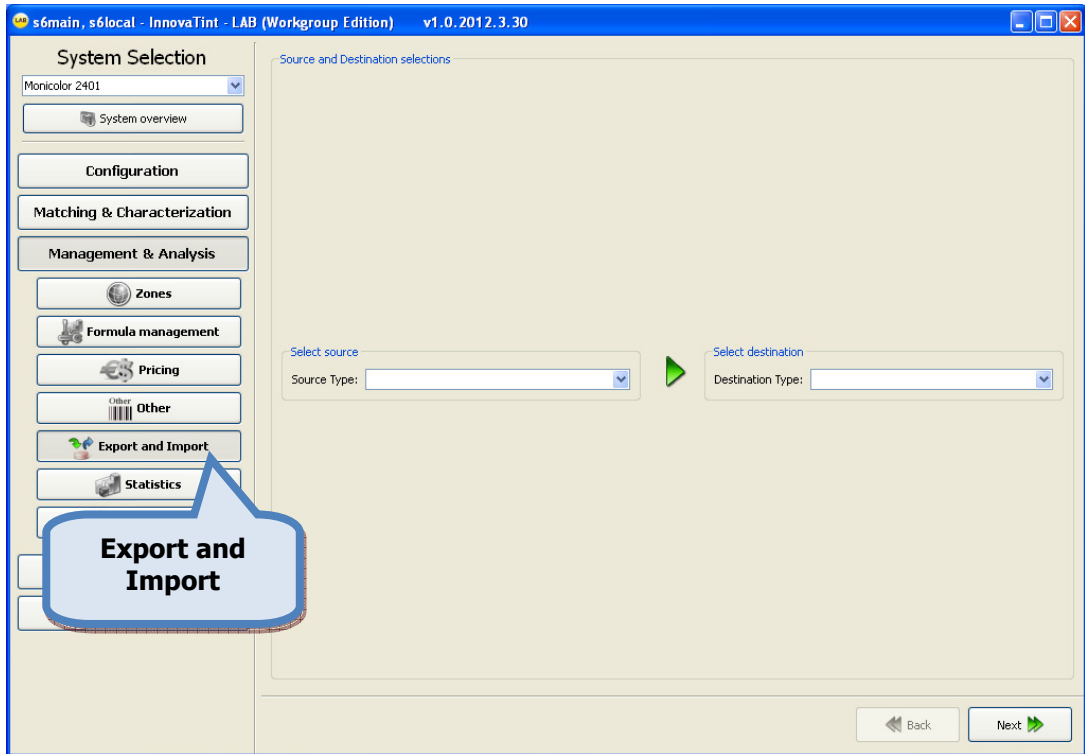
To add a new bar code, navigate into the **Formula barcodes** tab page of the **Management & Analysis** ⇒ **Other** page.



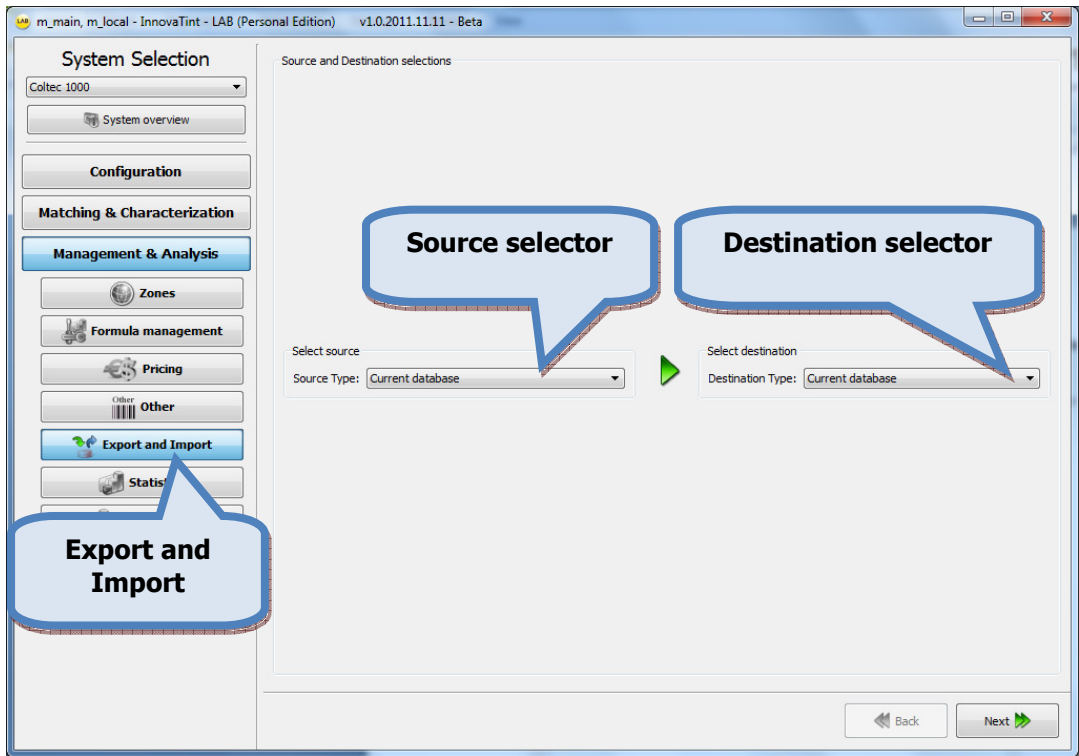
1. Select a **color code**, **product**, **base paint**, and **can size**.
2. Select the **bar code** you wish to delete.
3. Click the **Delete** button.

4.5 Export and Import

To export a database to other the database or the file , navigate into the **Management & Analysis** ⇒ **Export and Import** page.



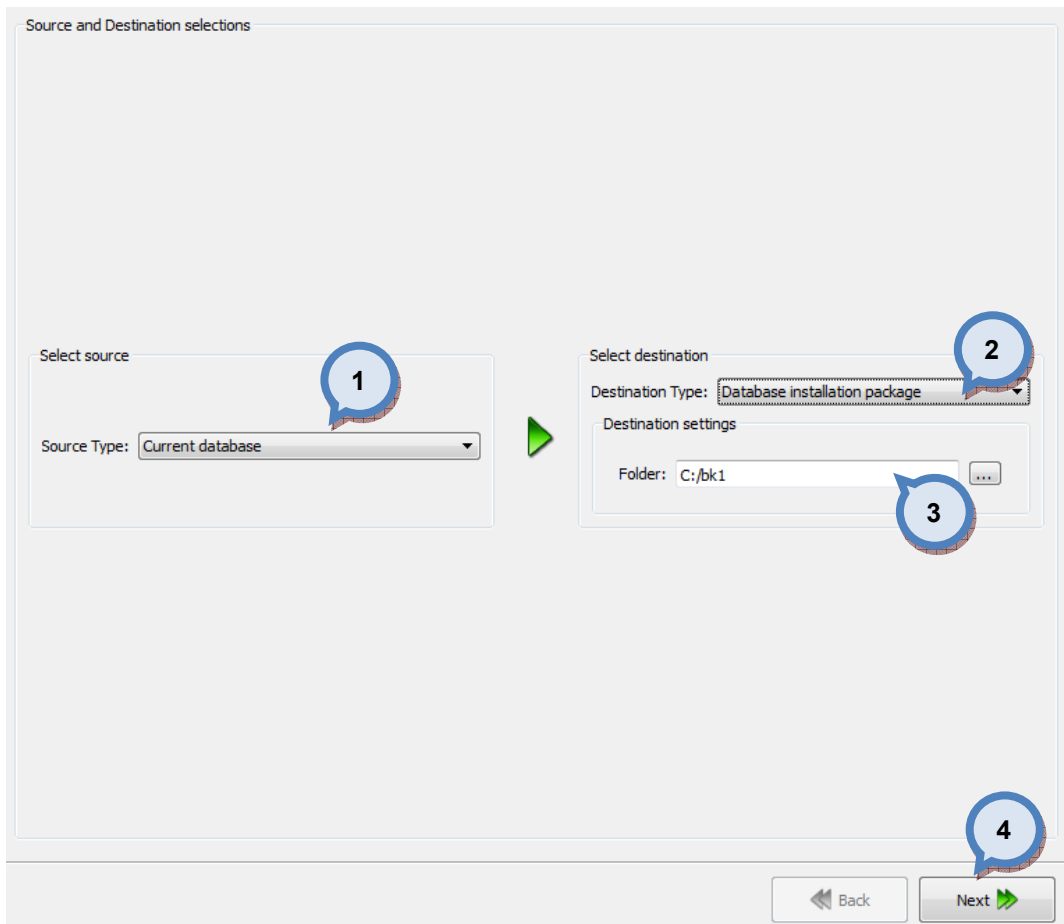
Before a local database can be extracted an empty database to write to is needed.
Alternatively, existing database can be updated.



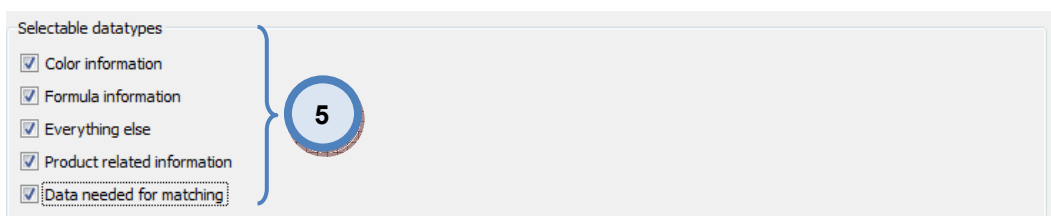
4.5.1 Create a database installation package from the current database

To export and import databases, select **Management & Analysis** ⇒ **Export and Import**

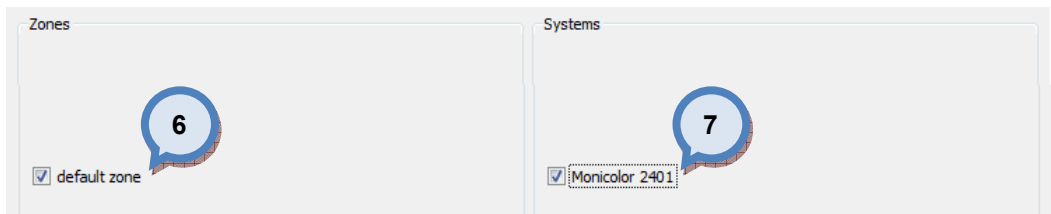
To **create database installation package** from current database:



1. Select **Current database** as source
2. Select **Database installation** package as destination type
3. Select **destination folder** for installation package files
4. Click **Next** button

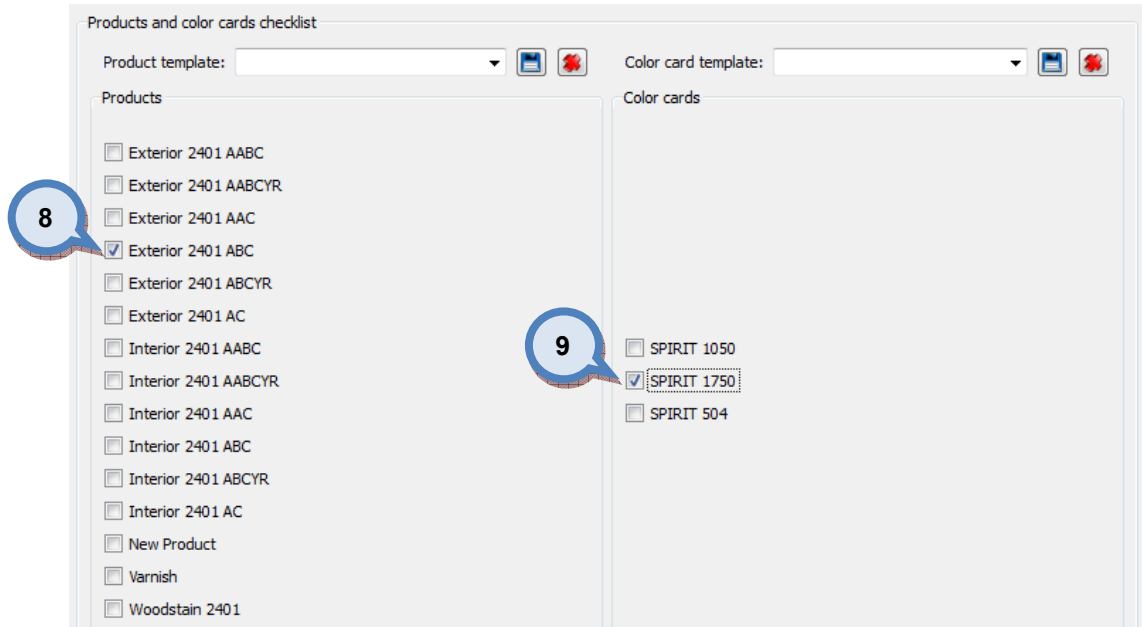


5. Select **data types** from list



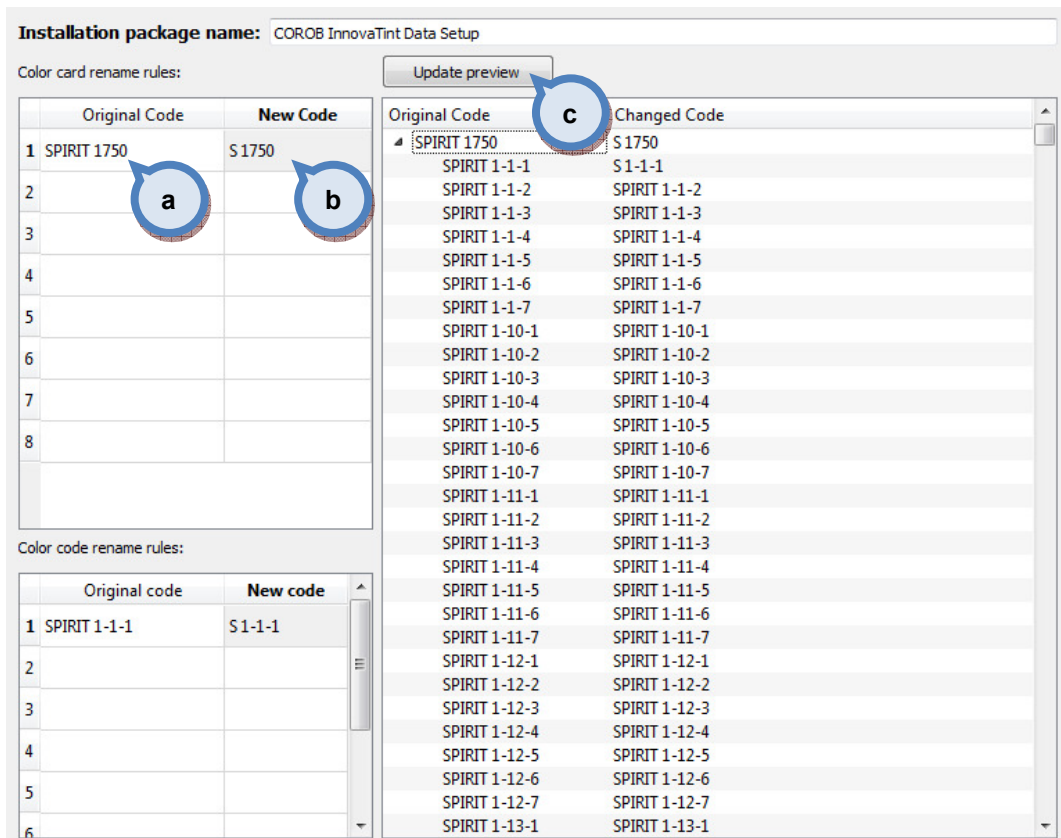
6. Select Zones

7. Select Systems



8. Select Products (or select template)

9. Select Color cards (or select template)

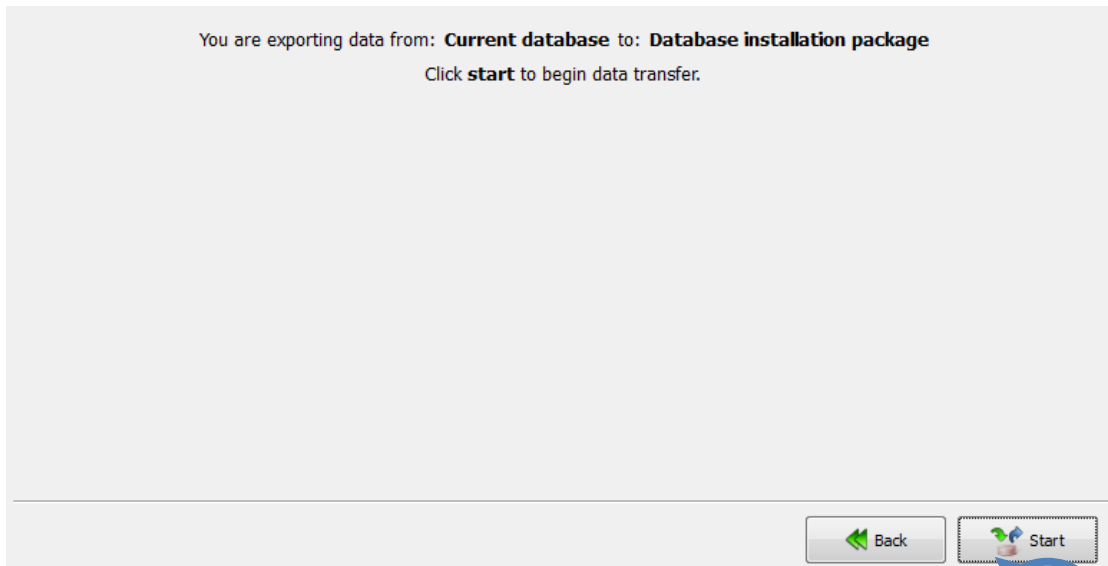


To **change color card name/code** or color name/code,

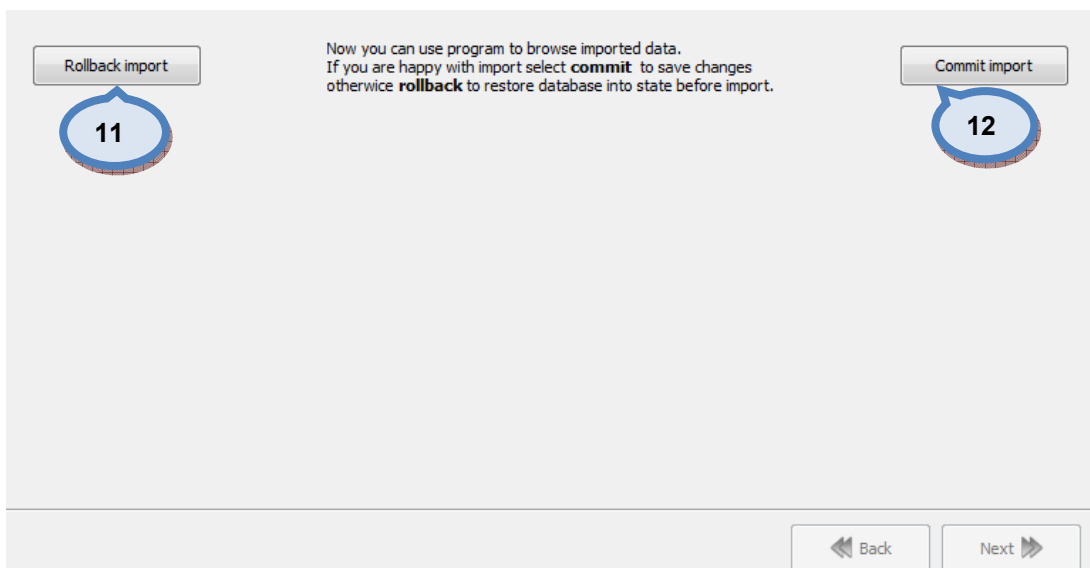
a.Type **original code** to left side column

b.Type **new code** to right side column

c.Click **Update preview** button



10.Click **Start** button



11.Click **Commit import** to finalize import

Or

12.Click **Rollback import** to undo import

To **import product, colorant, or color card information** from InnovaTint database to current InnovaTint database:

1. Select InnovaTint database as **Source type**
2. Select main database you wish to use as **source database**
3. Enter **Username** and **Password**
4. Select Current database as **destination type**
5. Click **Next** button

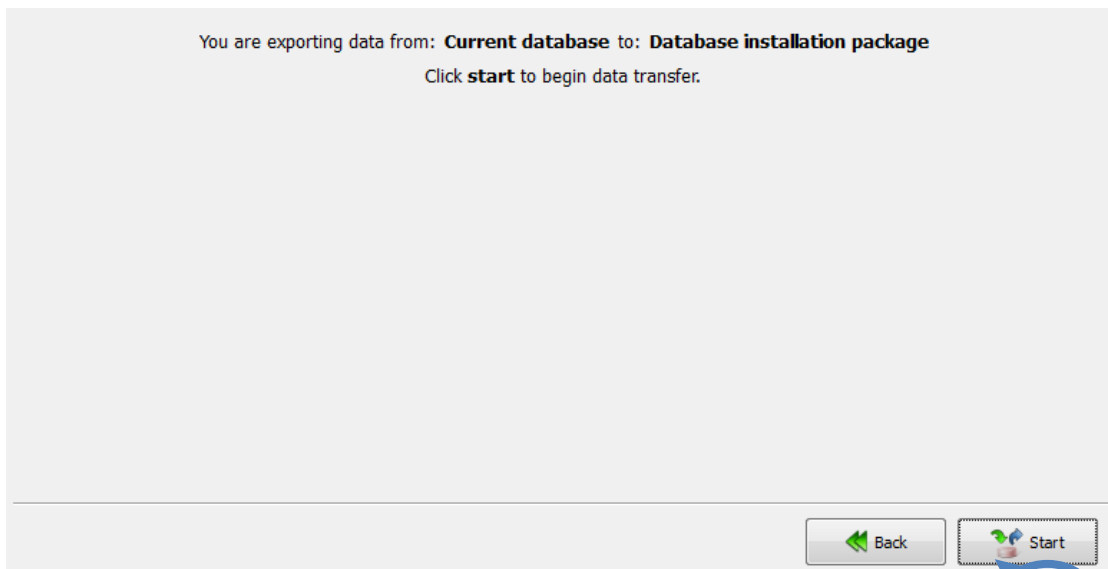
6. Select **data types** from list

7. Select **Zones**
8. Select **Systems**



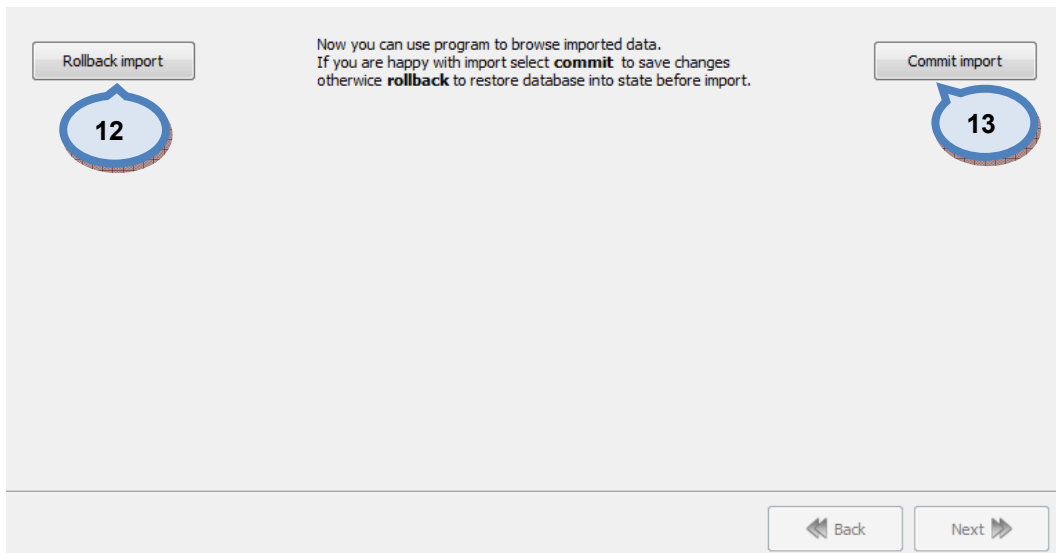
9.Select **Products** (or select template)

10.Select **Color cards** (or select template)



11.Click **Start** button





12.Click **Commit import** to finalize import

Or

13.Click **Rollback import** to undo import

To **import text file** into current database:

Source and Destination selections

Select source

Source Type: Free text format

Source settings

File: C:/bk1/codes.txt

Select destination

Destination Type: Current database

Back Next

1. Select **Free text format** as source type
2. Select **file** to be imported
3. Select **Current database** as destination type
4. Click **Next** button

Free form txt import

Import settings

Colors
 Color cards
 Formula

In formula import
 "Colorant amount sublist" or
 "Colorant amount pairs" is compulsory

First line is column header
 Values are surrounded by: " "

Item name	Fixed value
Color card	
Color code	

Column separator
 Tab Comma Custom:

Sub item separator
 Default (:) Custom:

Subsub item separator
 Default (:) Custom:

Try to match columns

Update Preview

5

Drag items to match column data.

Color card	Color code
CARDNAME	COLOURCODE
SUPER PLUS	SP 11-11-11
SUPER PLUS	SP 11-11-12
SUPER PLUS	SP 11-11-13
SUPER PLUS	SP 11-11-14
SUPER PLUS	SP 11-11-15
SUPER PLUS	SP 11-12-11
SUPER PLUS	SP 11-12-12
SUPER PLUS	SP 11-12-13
SUPER PLUS	SP 11-12-14

Back Next

6

If default settings are not correct, change settings click Update Preview button

5. Click **Try to match columns**

6. Click **Next** button

Definable items

Color code prefix

Update

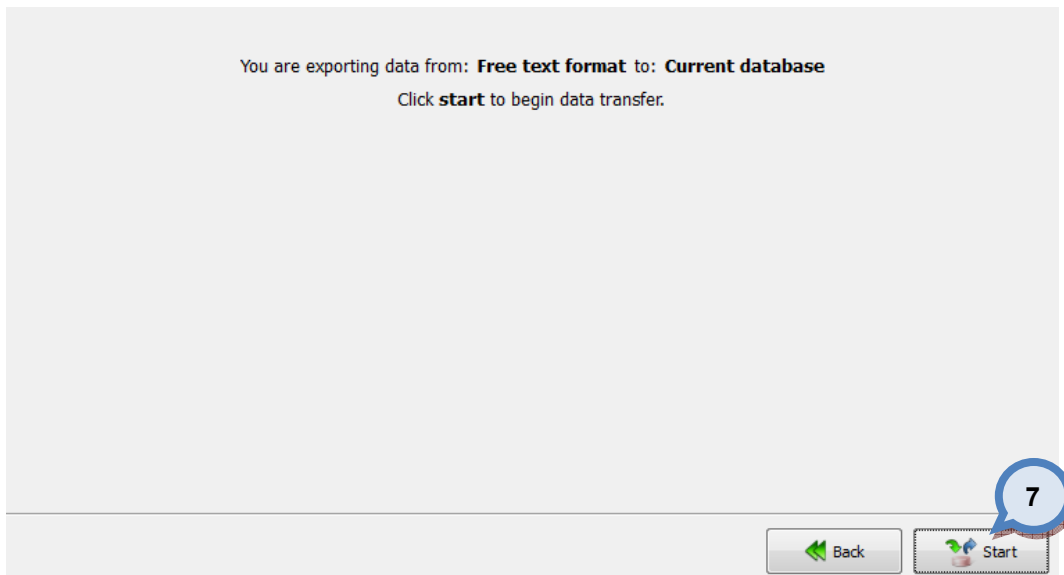
a

b

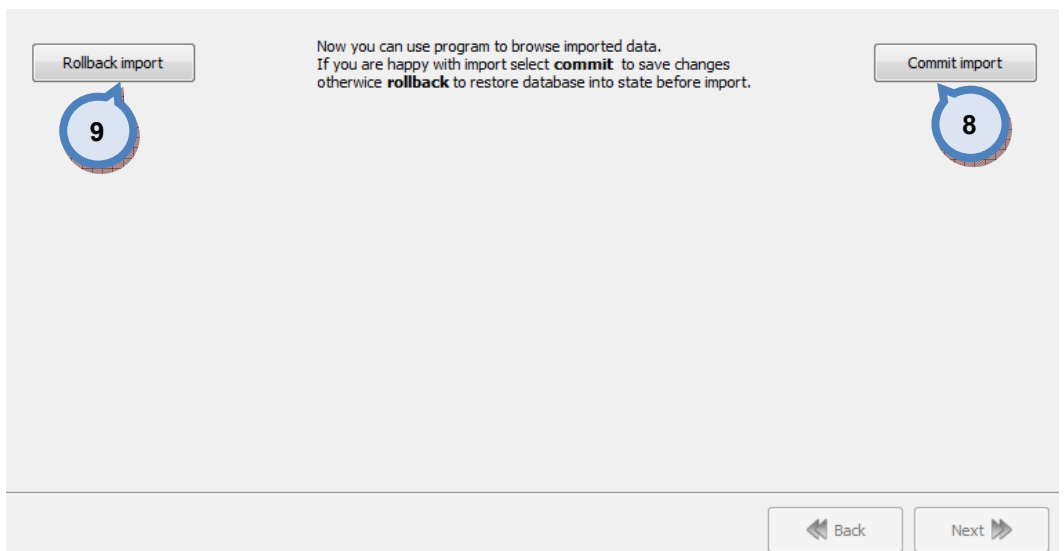
If prefix is needed in front of the codes

a. Type prefix to **Color code prefix** text box

b. Click **Update** button



7. Click **Start** button



8. Click **Commit import** to finalize import

Or

9. Click **Rollback import** to undo import

4.6 Statistics

To view the tinting history, navigate into the **Management & Analysis** ⇒ **Statistics** page.

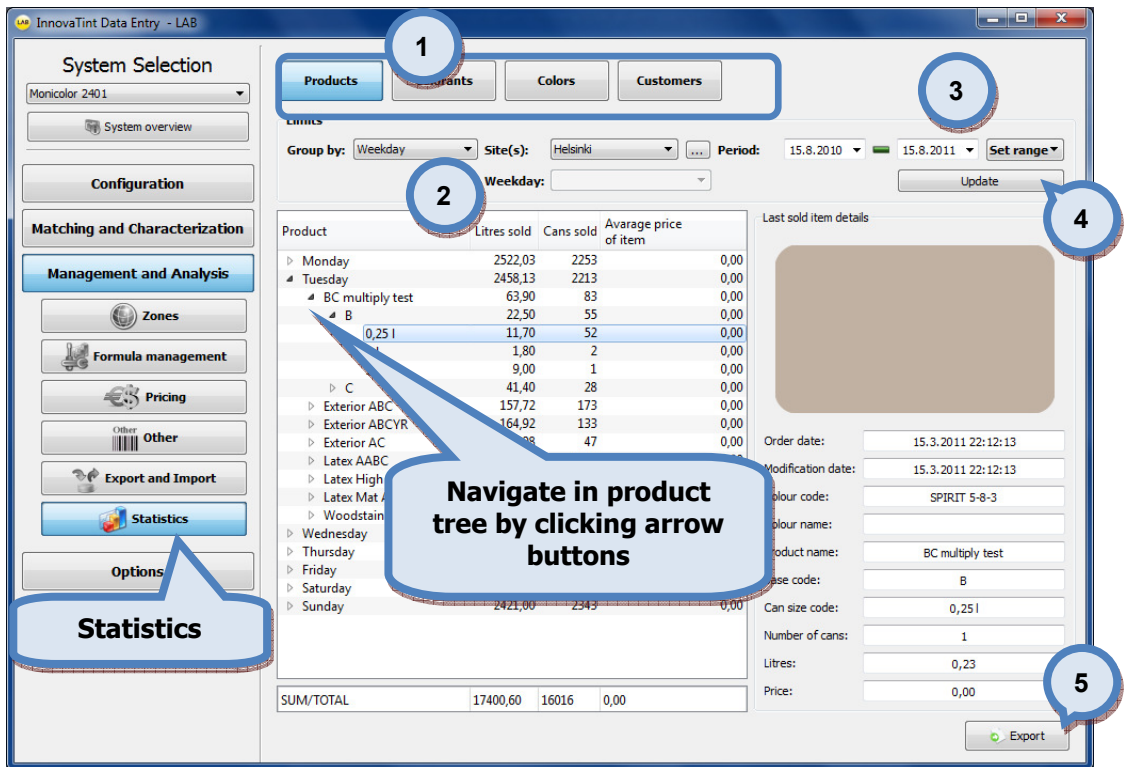
The screenshot shows the 'Statistics' page in the InnovaTint LAB software. The interface is divided into several sections:

- System Selection:** Shows 'Monicolor 2401' and a 'System overview' button.
- Configuration:** A section for system settings.
- Management & Analysis:** The active section, containing a sidebar with options: Zones, Formula management, Pricing, Other, Export and Import, **Statistics** (highlighted with a callout), and Site Inventory.
- Products, Colorants, Colors, Customers:** Filter tabs at the top.
- Limits:** A section for filtering data by 'Group by' (Weekday), 'Site(s)', and 'Period' (6/10/2011 to 6/9/2012). Includes an 'Update' button.
- Data Table:** A table showing sales data by day of the week.

Product	Litres sold	Cans sold	Average price of item
Monday	0	0	0
Tuesday	0	0	0
Wednesday	0	0	0
Thursday	0	0	0
Friday	0	0	0
Saturday	0	0	0
Sunday	0	0	0
SUM / TOTAL	0	0	0.00
- Last sold item details:** A section for viewing details of the last sold item, including fields for Order date, Modification date, Colour code, Colour name, Product name, Base code, Can size code, Number of cans, Litres, and Price. A 'No preview' image is shown.
- Export:** An 'Export' button at the bottom right.

In statistics page you can:

- View statistics of tinting history of local site or site groups filtered by:
 - Products
 - Colorants
 - Colors
 - Customers
- Export search result



1. Select first if you wish to view statistics based on **products, colorants, colors**, or by **customers**.
2. Set limits to search results **by site(s), weekdays, period of time**, or combination of those
3. Set limits to search by any specific **date range** or by preset limit range, like: previous week, previous year, etc.
4. Click **Update** button

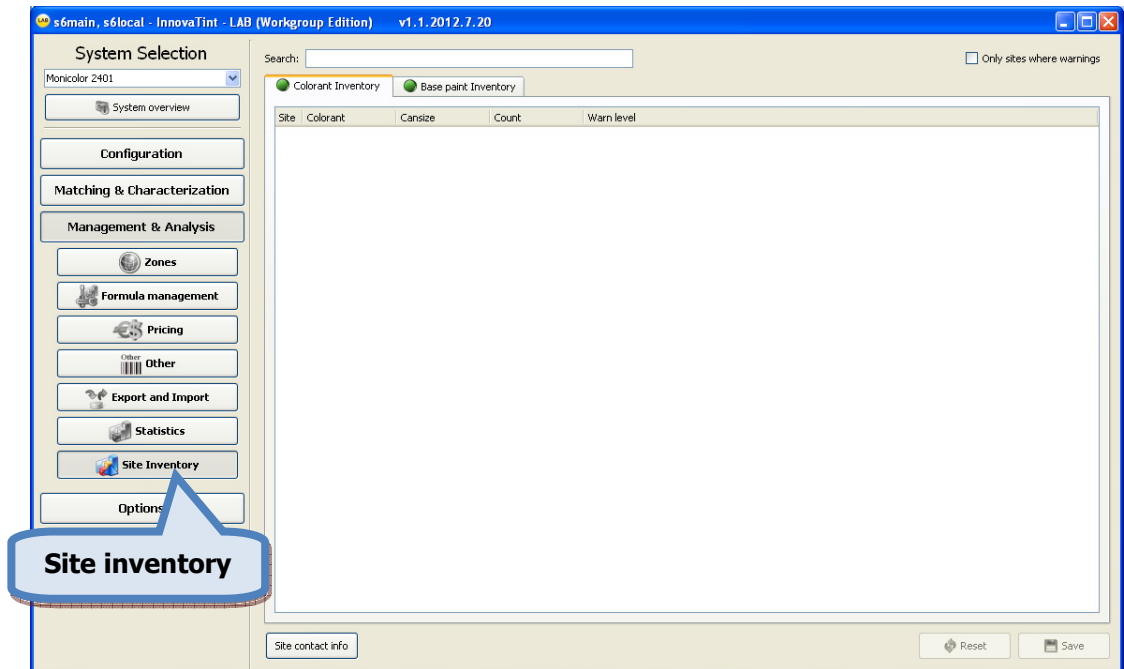
You can change your settings, and click "Update" button to have new search result. On statistics window, you can use arrows in tree view to open sub levels of items, e.g. base paints under product.

You can also use Export button (5) to export your search result to single text file for later analysis with other program like Excel, or to store tinting history.

4.7 Site inventory

To manage you colorant and base paint stock, select **Management & Analysis** ⇒ **Site inventory**

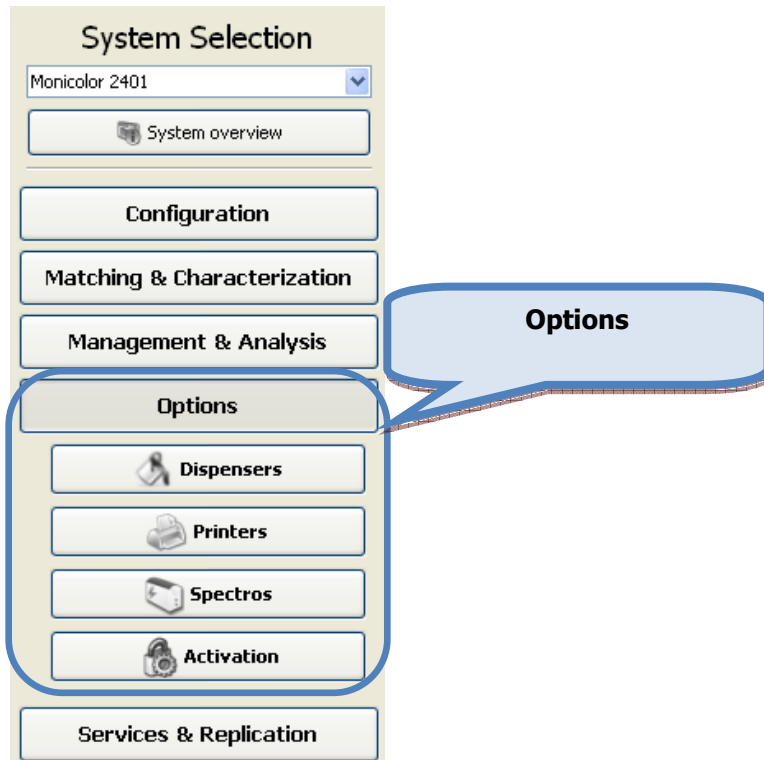
In this page you can view stock levels by can sizes on each site. This page has 2 tab pages: one for **Colorants** and one for **Base paints**.



5 Options

Options section has a four sub pages, where you can:

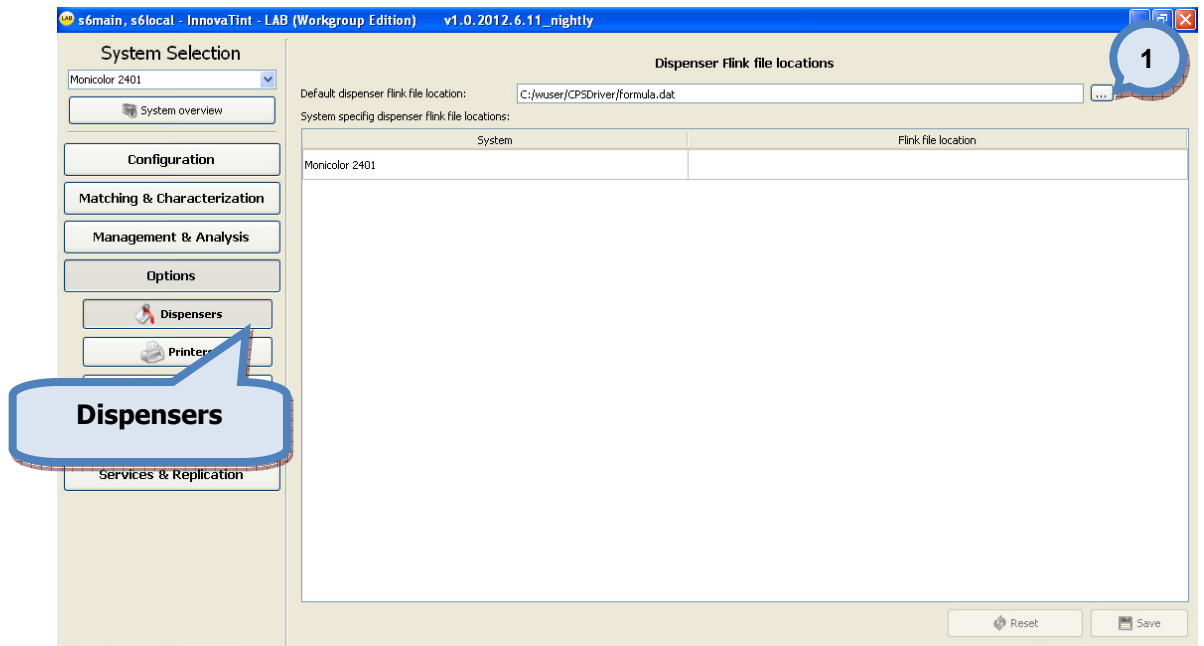
- Install the dispensing equipments
- Install the printers
- Install the spectrophotometers
- Activate or return your software license




5.1 Dispensers

5.1.1 Set a default Flink file location

To set a default Flink file location, navigate into the **Options** ⇒ **Dispensers** page.

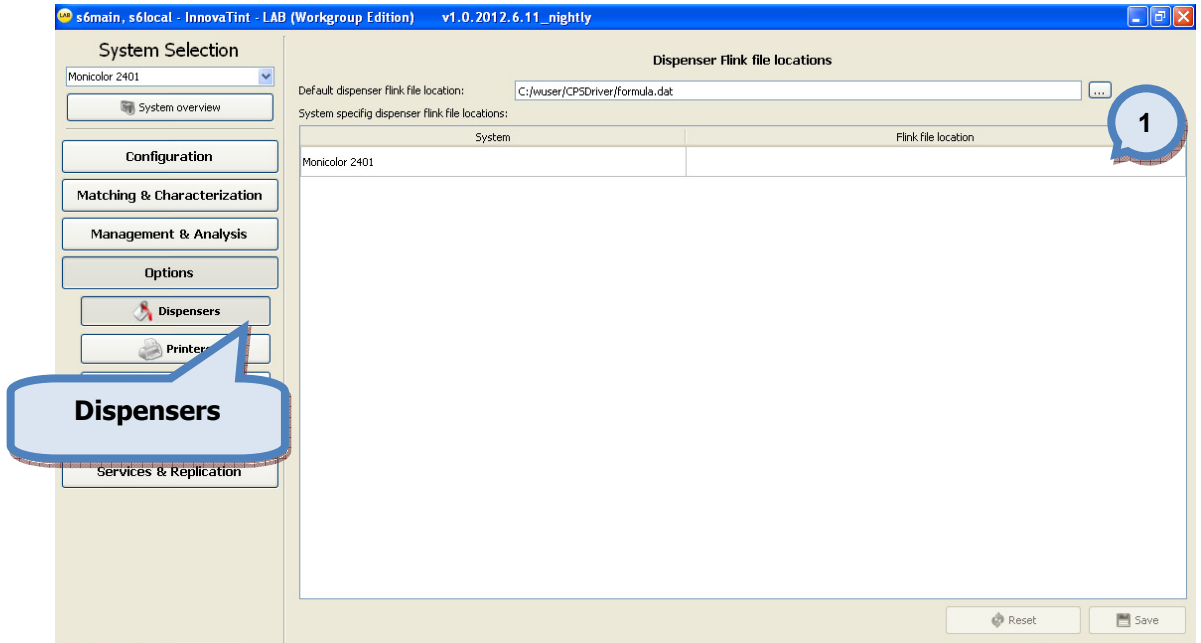


1. Click a  button.
2. Select a **Flink file** from the file selector window.

Note: The Flink file name and location are used to set the formula (order) to the external tinting device (other tinting device than Corob). Communication between the InnovaTint and the Corob tinting equipment is handled automatically, but if user needs to use the tinting equipment by other supplier, Flink protocol can be used to send the formula information to this device. The driver of the tinting equipment need to be able to use the Flink protocol. If this procedure is used, the InnovaTint driver and the colorant Levels tab page are disabled.

5.1.2 Set a system specific Flink file location

To set a system specific Flink file location, navigate into the **Options** ⇒ **Dispensers** page.



1. Double click with left mouse button the Flink file location column on the same rows as an appropriate system.

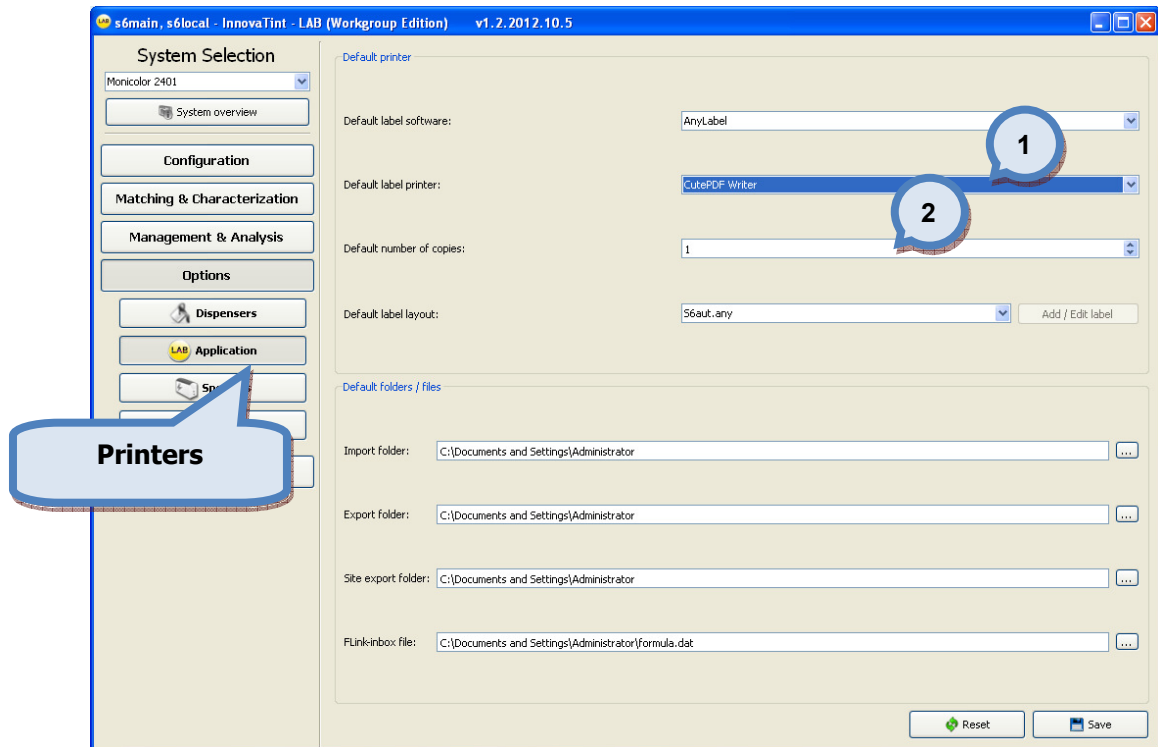
2. Select a **Flink file** from the file selector window.

Note: The Flink file name and location are used to set the formula (order) to the external tinting device (other tinting device than Corob). Communication between the InnovaTint and the Corob tinting equipment is handled automatically, but if user needs to use the tinting equipment by other supplier, Flink protocol can be used to send the formula information to this device. The driver of the tinting equipment need to be able to use the Flink protocol. If this procedure is used, the InnovaTint driver and the colorant Levels tab page are disabled.

5.2 Printers

5.2.1 Set a new default label printer

To set a default label printer, navigate into the **Options** ⇒ **Applications** page.



1. Select a printer from the drop down list.

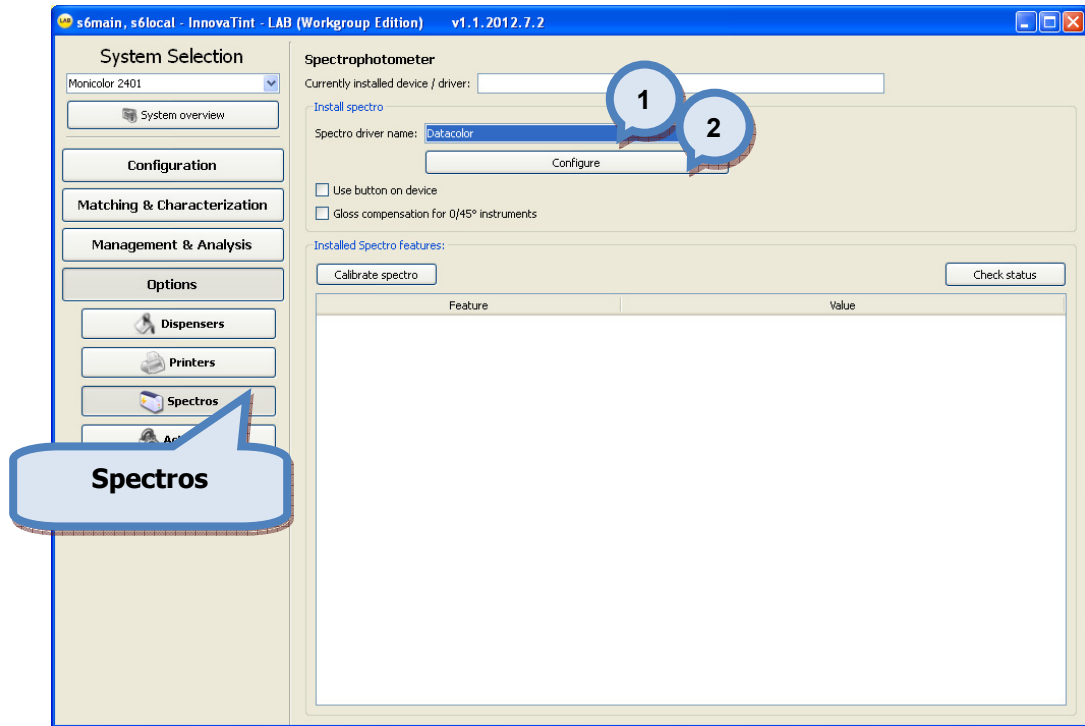
Note: Printers in the drop down list (1) are set in the Windows settings. Please refer to Windows manual on how to set a new printer into the Windows.

Note: On the same page you can also set a **number of copies** to be printed as default by selecting a number on the selector field (2).


5.3 Spectros

5.3.1 Install a spectrophotometer

To install a spectrophotometer, navigate into the **Options** ⇒ **Spectros** page.



1. Select the device from the **Spectro driver name** drop down list.

2. Click the **Configure**  button.

The **Add Instrument** window opens up:

The screenshot shows a software dialog box titled "Add Instrument". It contains the following fields and controls:

- Manufacturer:** A dropdown menu with "Datacolor Current Models" selected. A blue callout bubble with the number "3" points to this dropdown.
- Model:** A dropdown menu with "110: Datacolor 110" selected.
- Communication Parameter:** A group box containing:
 - Port:** A dropdown menu with "COM1" selected.
 - Baud Rate:** A dropdown menu with "19200" selected.
 - Data Bits:** A text box containing "8".
 - Parity Bit:** A dropdown menu with "N" selected. A blue callout bubble with the number "4" points to this dropdown.
 - Stop Bit:** A text box containing "2".
- Serial No:** An empty text box. A blue callout bubble with the number "5" points to the "Add" button below it.
- Buttons:** "Add" and "Cancel" buttons at the bottom.

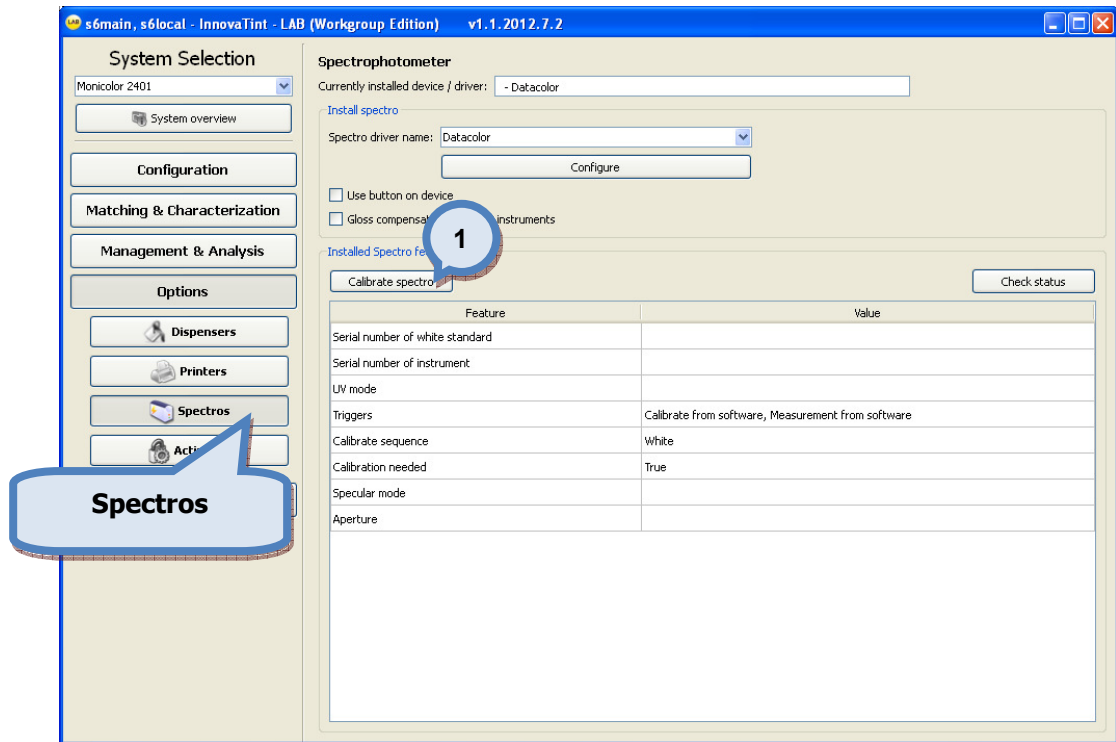
3.Select the **Manufacturer** and the **Model** of your spectrophotometer from the drop down lists.

4.Enter the serial number of your spectrophotometer in to the **Serial No** text box.

5.Click the **Add** button.

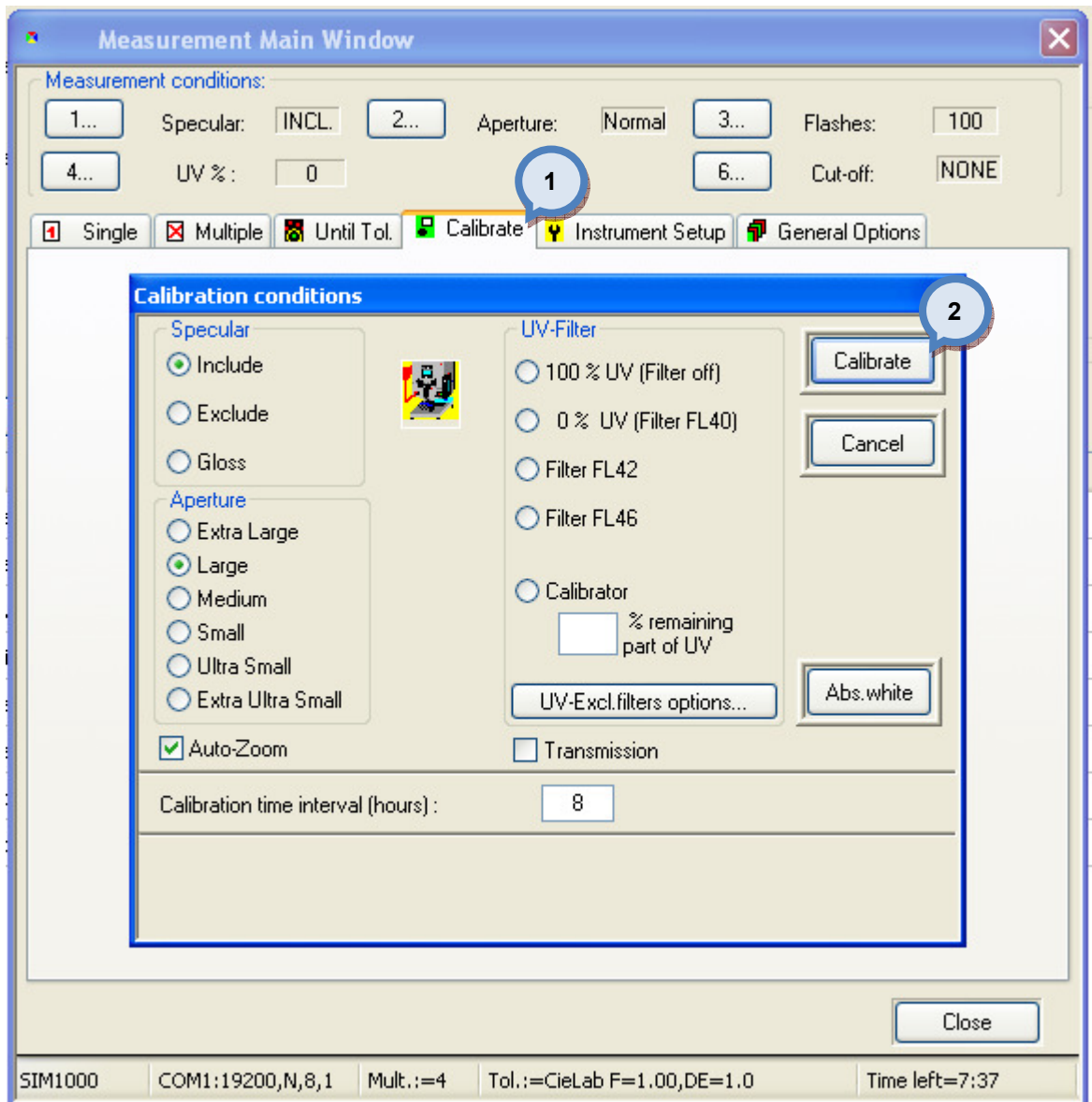
5.3.2 Calibrate a spectrophotometer

To calibrate a spectrophotometer, navigate into the **Options** ⇒ **Spectros** page.



1. Click the **Calibrate spectro**  button.

The **Measurement main window** opens up:

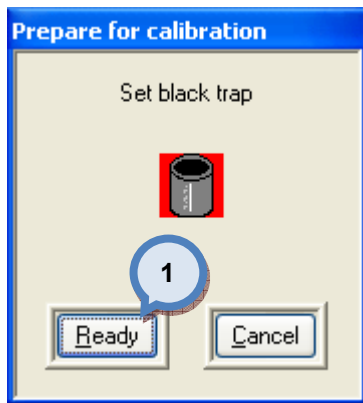


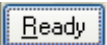
1.Navigate to calibrate tab page

The **Calibration conditions** window opens up (picture above)

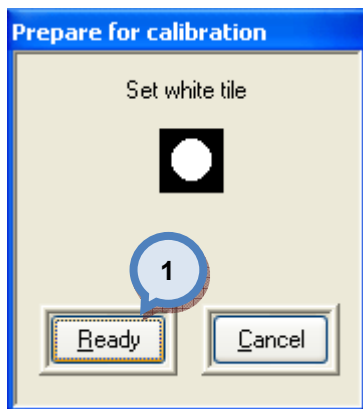
2.Click the **Calibrate**  button.


The **Prepare for calibration** window opens up.



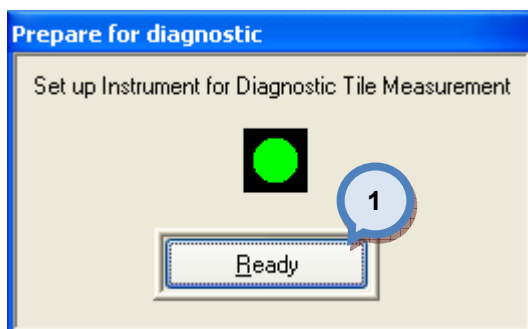
1. Insert the **black trap** into the measuring opening of the spectrophotometer
2. Click the **Ready**  button.

The **Prepare for calibration** window opens up.



1. Insert the **white tile** into the measuring opening of the spectrophotometer
2. Click the **Ready**  button.

The **Prepare for diagnostics** window opens up.



1. Click the **Ready**  button.

The **Diagnostics Test result** window opens up.

Diagnostic Test Result

Instrument: SIM1000 123455 Moyal Ltd

Reference diagnostic file: _TEST SIM2000123455 SCI NOR.UVEXC

Sample diagnostic file: _TEST SIM2000123455 SCI NOR.UVEXC 120713 10:25

Illuminant: D65/10
Formula: CMC L = 2.0 C = 1.0 TF = 0.50

	Brightness L:	Chromacity C:	Hue h:
Reference	56.84	31.88	152.10
Sample	56.84	31.86	152.07
Difference	-0.00	0.02	0.03

CMC delE: 0.01
DECISION: PASS

Spectral Reflectance Graph: R[%] vs [nm] (450-700 nm)

1. Click the **OK** button.

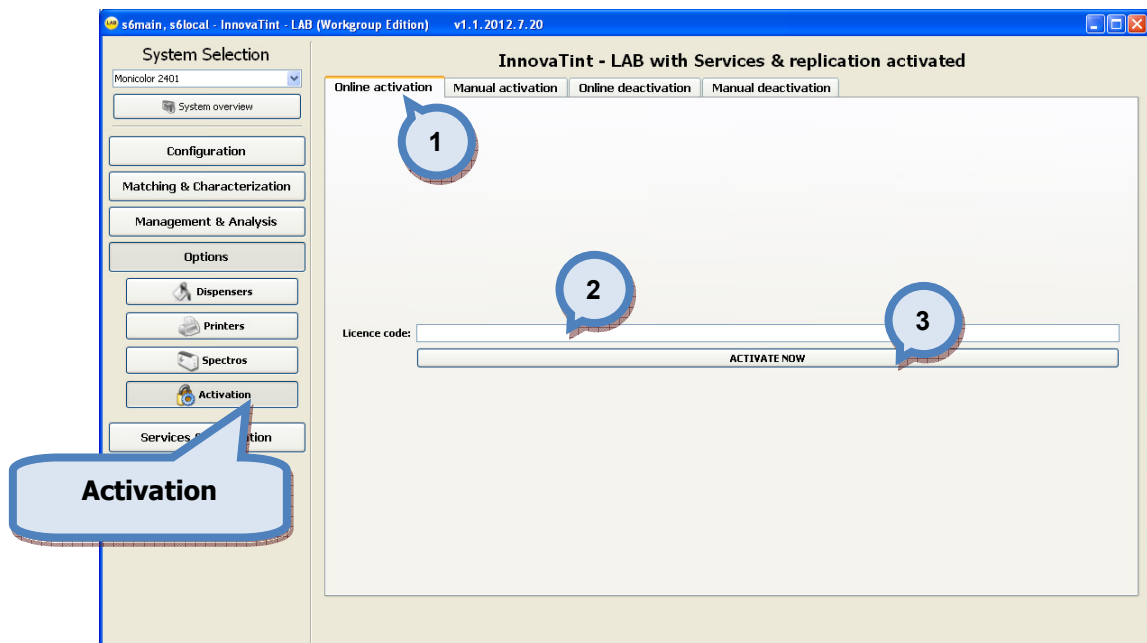
5.4 Activation

To activate or de-activate your software select **Options** ⇒ **Activation**.

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 via emails or similar. Likewise, you can deactivate your software with internet service or manually.

5.4.1 Activate software with the online activation process

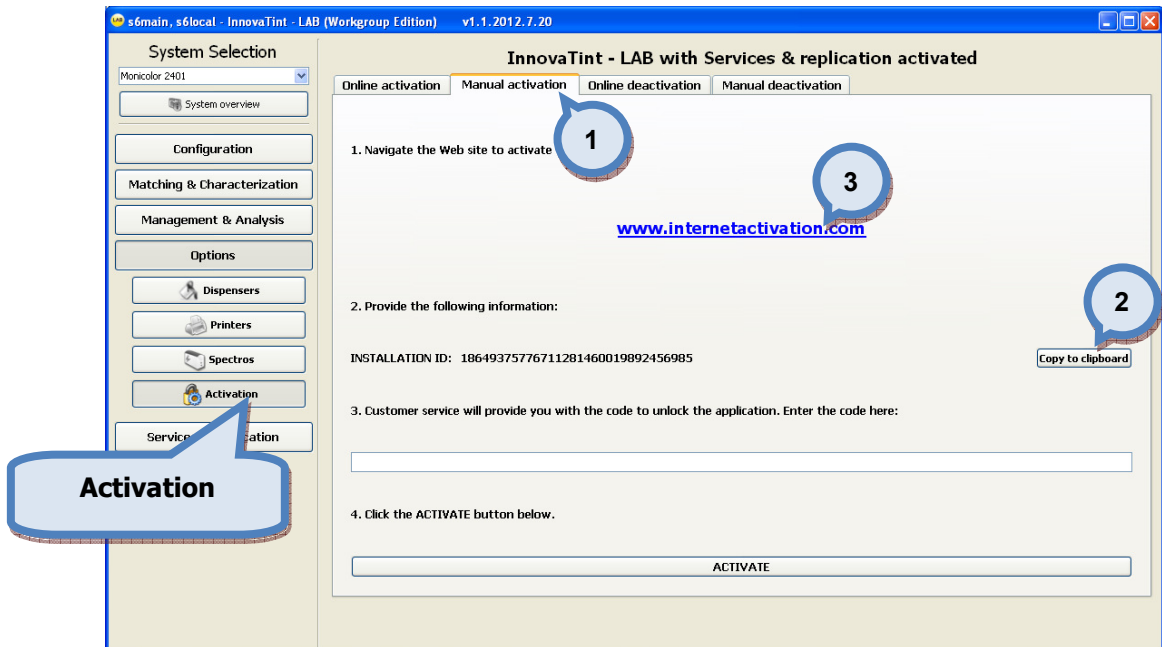
To activate your software navigate into the **Online activation** sub page of the **Options** ⇒ **Activation** page.



1. Select **Online activation** tab page
2. Enter **license code** obtained during purchase of software
3. Click **ACTIVATE NOW** button

5.4.2 Activate software with the manual activation process

To activate your software navigate into the **Manual activation** sub page of the **Options** ⇒ **Activation** page.



1. Select **Manual activation** tab page

2. Click **Copy to clipboard** button to copy the installation ID into the clipboard.

3. Click the link www.internetactivation.com to navigate into the activation web-page.

Activation web-page opens up.

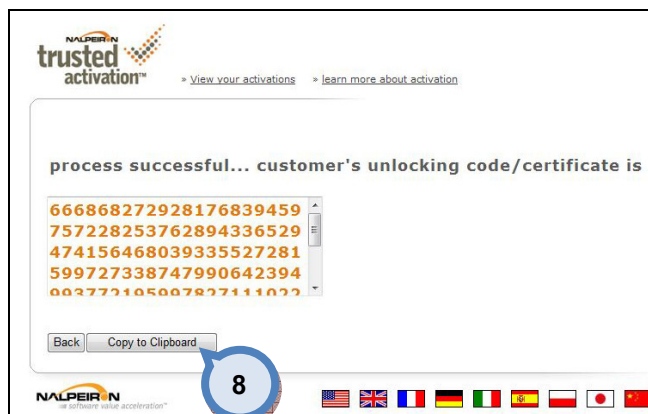


4. Paste installation ID into the **INSTALLATION ID** text box.

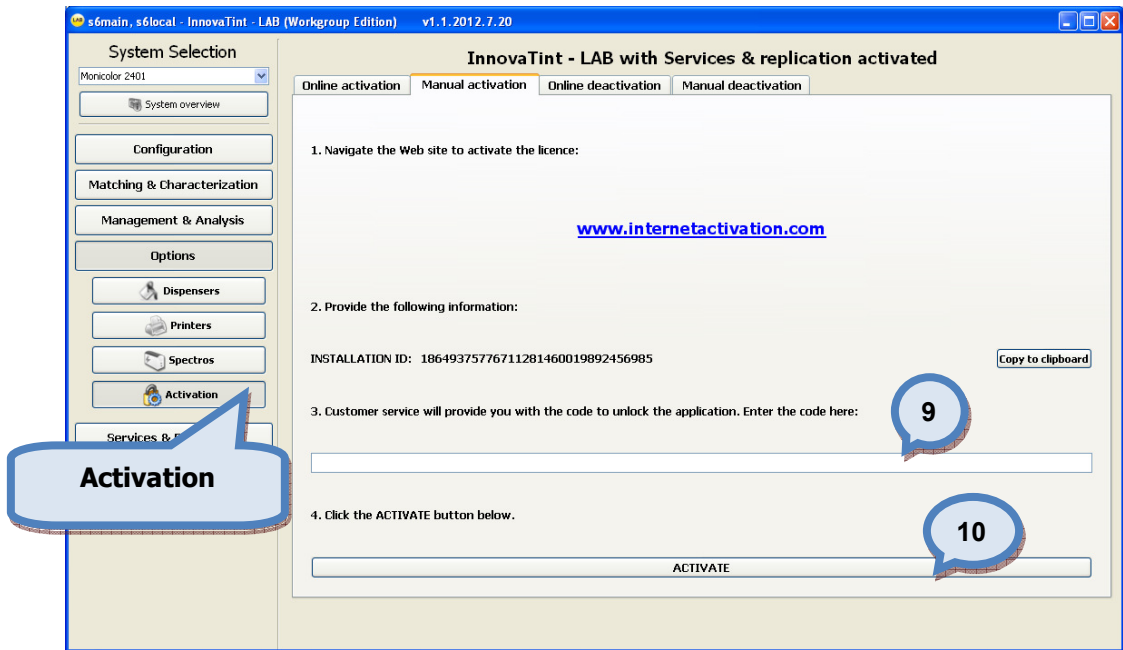
5. Enter licence number into the **LICENCE NUMBER** text box

6. Enable check box **I have read agreed to the terms and conditions** (after you have clicked hyperlink to the conditions, and you agree on it).

7. Click the **Generate to unlock** code button



8. Click **Copy to clipboard** button to copy the activation code into the clipboard.

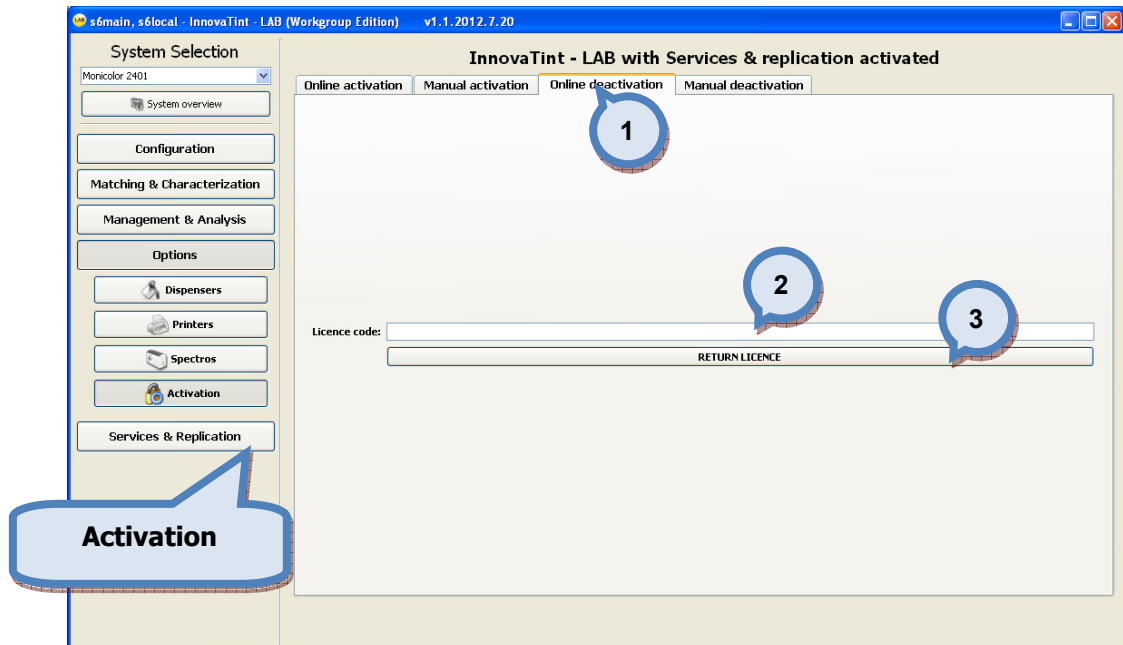


9. Paste unlock code into the text box.

10. Click the **ACTIVATE** button.

5.4.3 Deactivate software with the online deactivation process

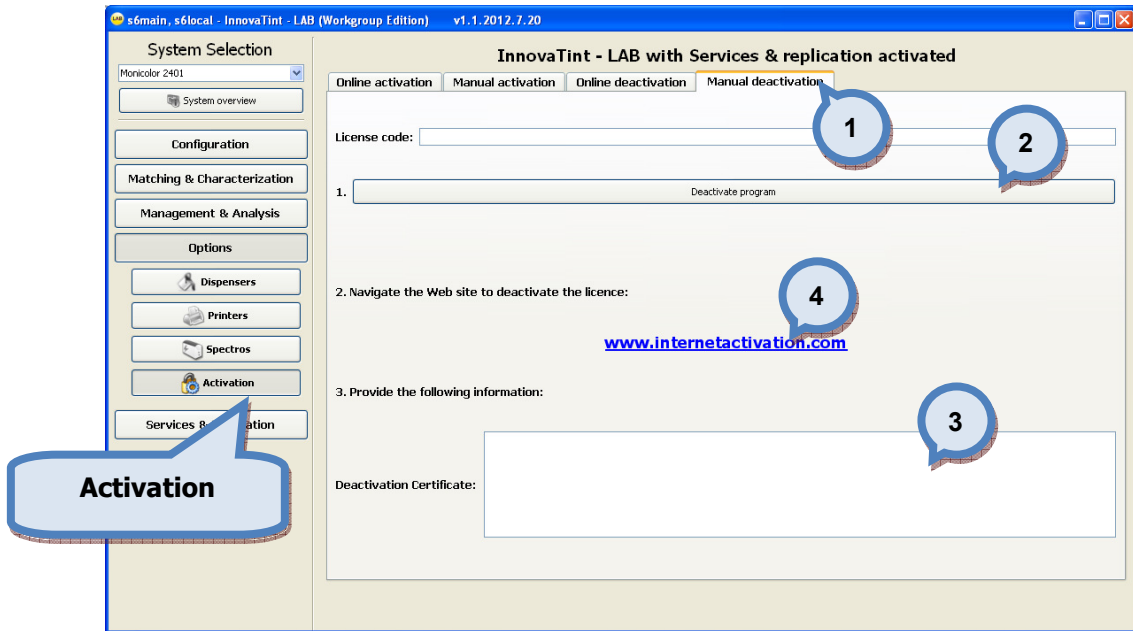
To deactivate your software navigate into the **Online deactivation** sub page of the **Options** ⇒ **Activation** page.



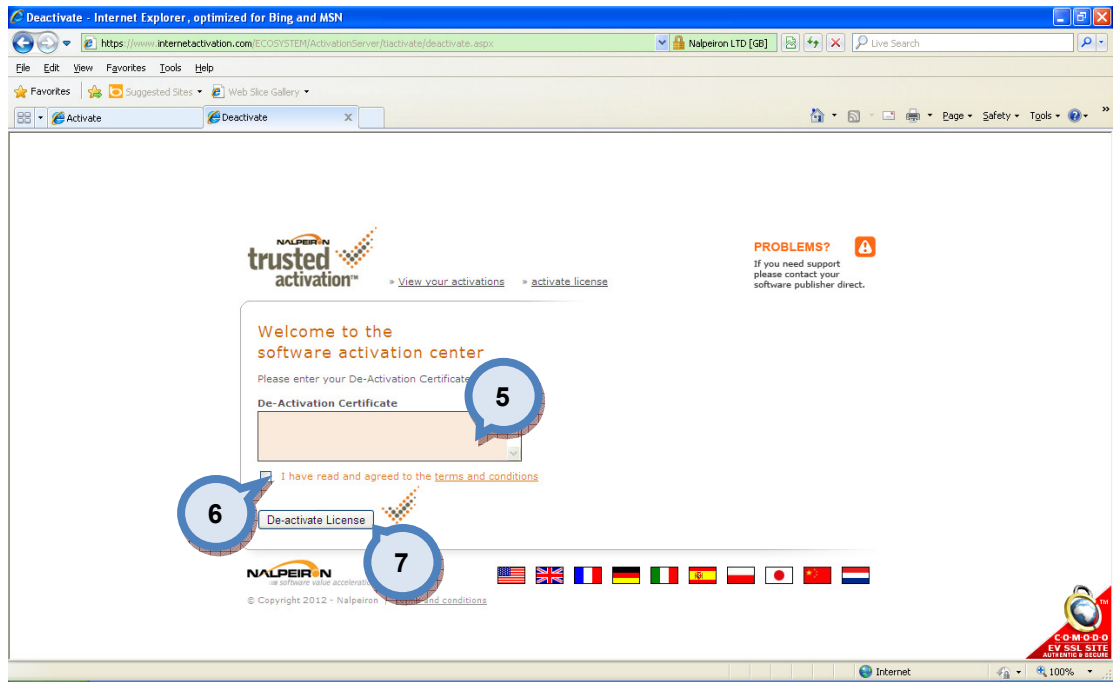
1. Select **Online deactivation** tab page
2. Enter **license code** obtained during purchase of software
3. Click **RETURN LICENSE** button

5.4.4 Deactivate software with the manual deactivation process

To deactivate your software navigate into the **Manual deactivation** sub page of the **Options** ⇒ **Activation** page.



1. Select **Manual deactivation** tab page
2. Click **Deactivate program** button.
3. Copy the Deactivation certificate by selecting the whole text field with ctrl+A and ctrl-C keyboard buttons.
4. Click the link www.internetactivation.com to navigate into the deactivation web-page.
DeActivation web-page opens up.



5.Paste deactivation certificate into the **De-activate Certificate** text box.

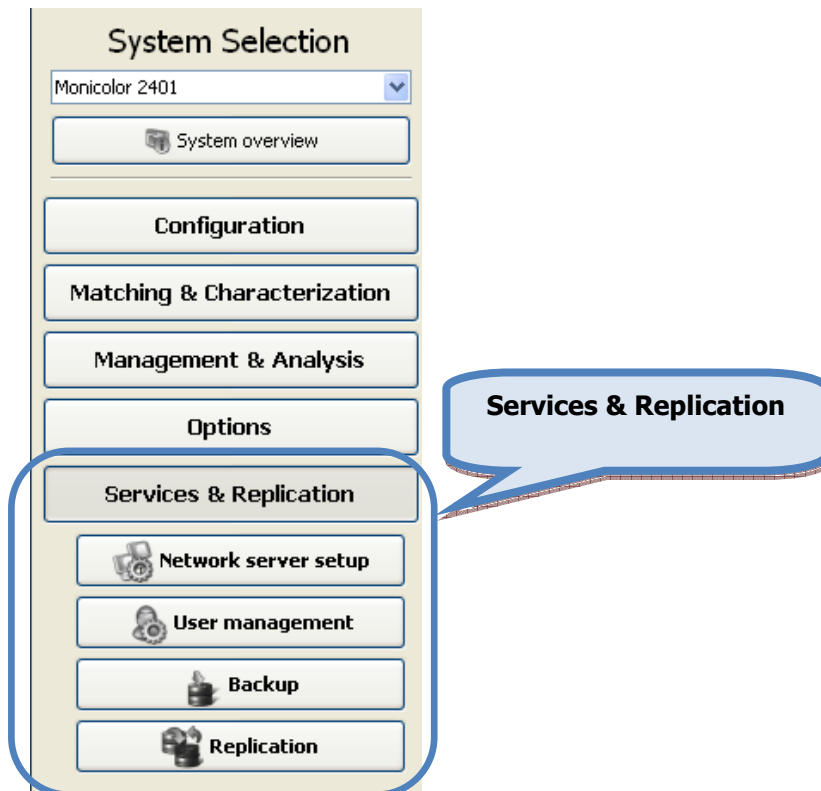
6.Enable check box **I have read agreed to the terms and conditions** (after you have clicked hyperlink to the conditions, and you agree on it).

7.Click the **De-activate licence** code button

6 Services & Replication

Services & Replication section has four sub pages, where you can:

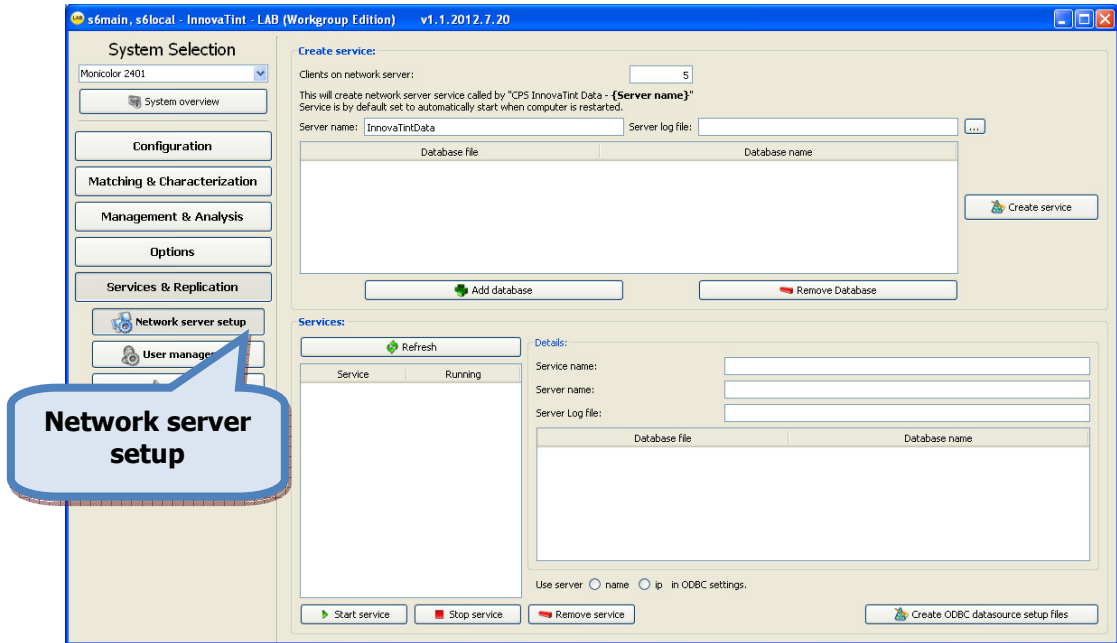
- Set network server settings
- Manage users and their passwords and access rights
- Make backups of your database
- Set replication settings



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.

6.1 Network server setup

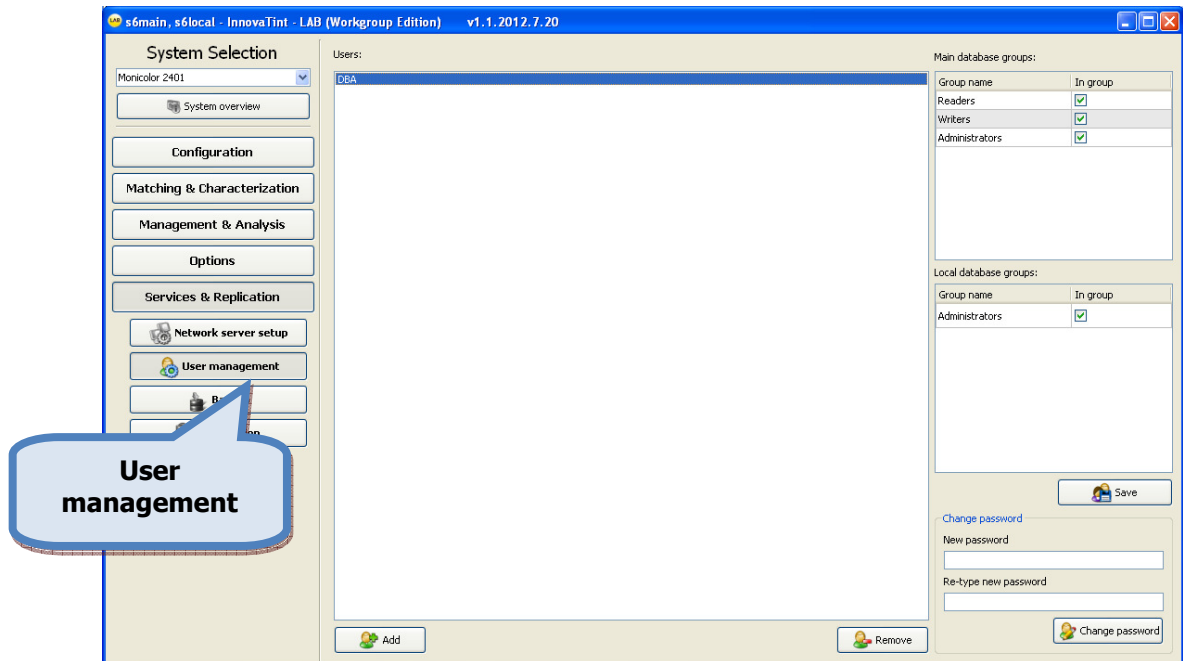
To setup network server, navigate into **Services & Replication** ⇒ **Network server setup**



6.2 User management

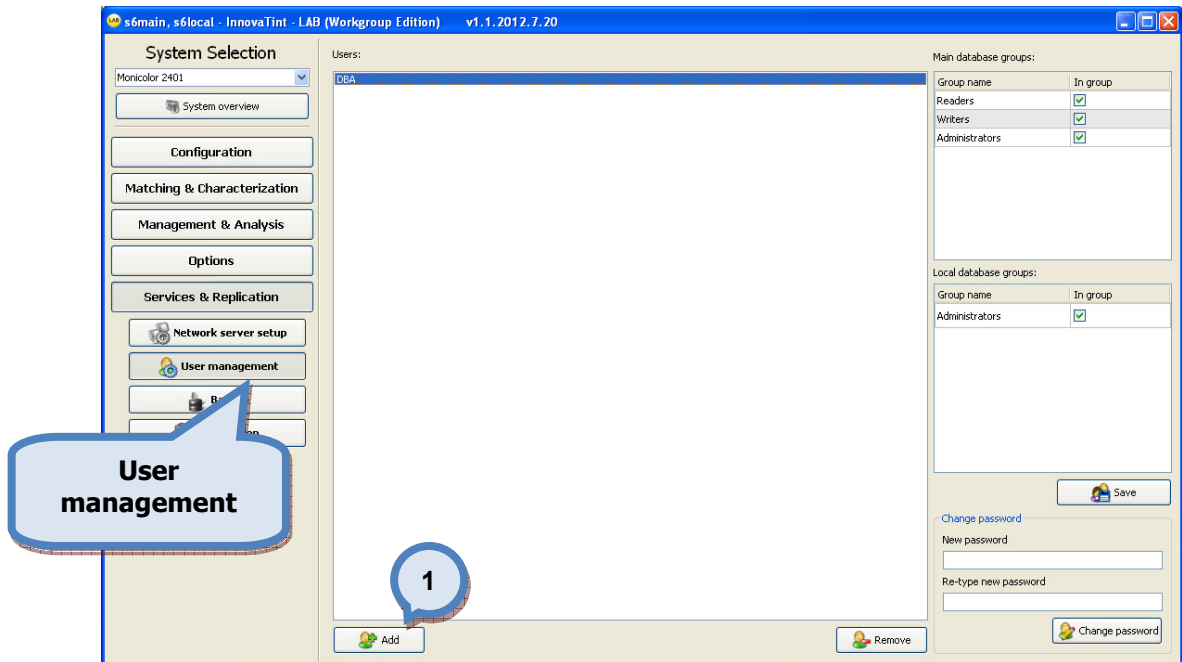
In the User management page, you can

- Add new users
- Delete an existing users
- Change passwords for the existing users

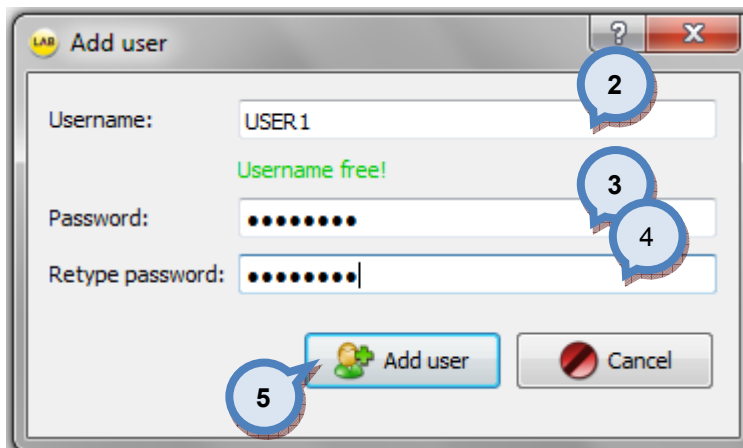


6.2.1 To add new user

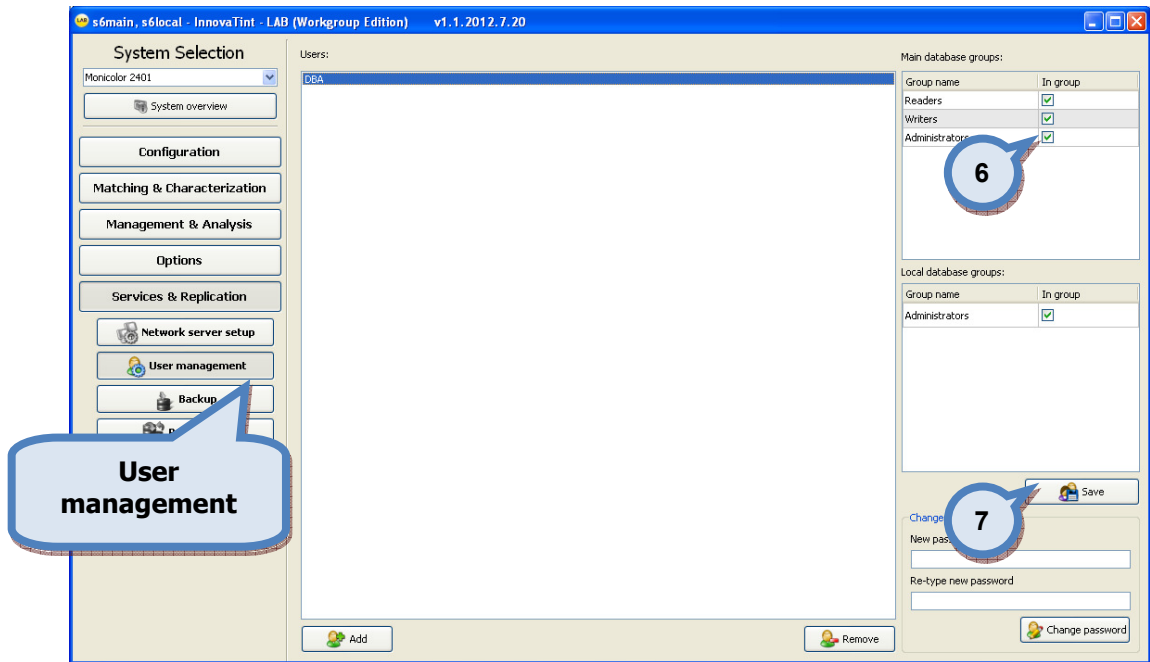
To add a new user, navigate into the **Options** ⇒ **User management** page.



1. Click **Add** button



2. Enter **username** to Username textbox
3. Enter **password** to Password text box
4. Re-enter **password** to retype password text box
5. Click **Add User** button

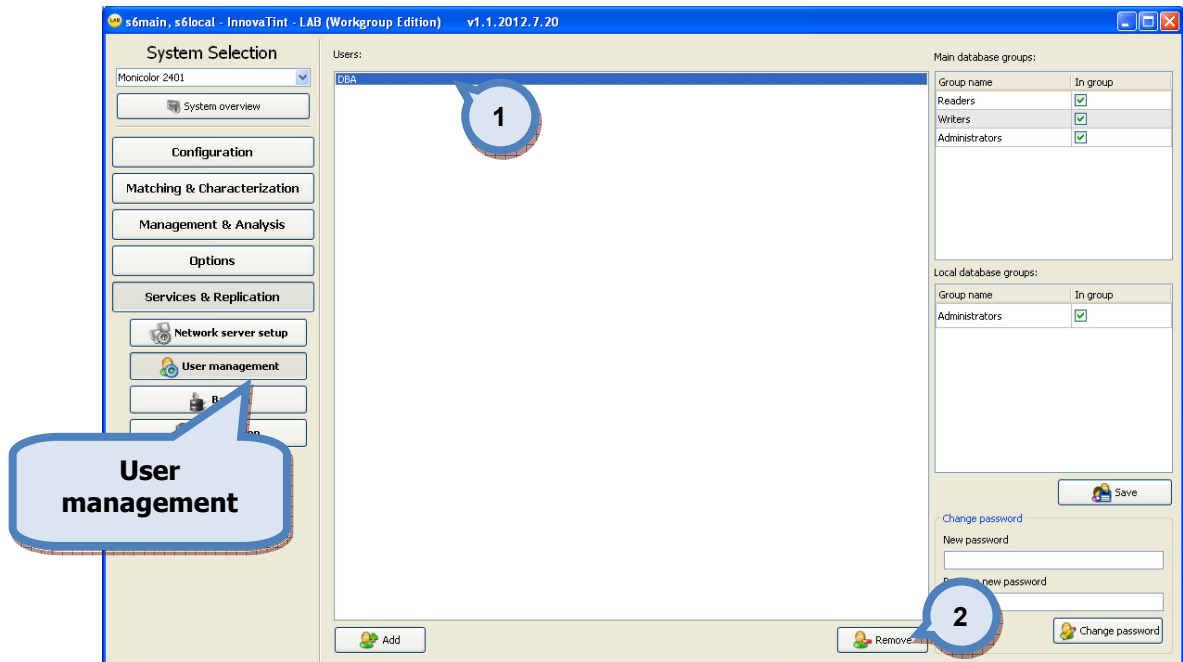


6.Enable **In group** check box to use pre-set user rights for user.

7.Click **Save** button

6.2.2 To delete user

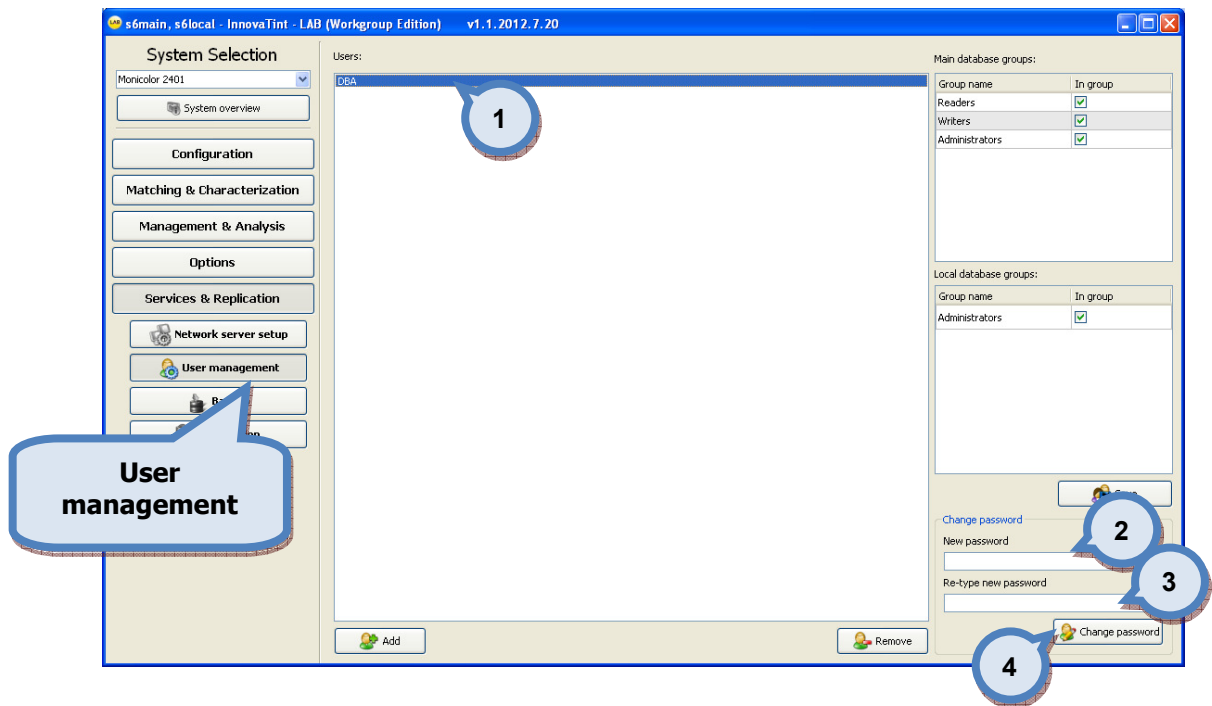
To delete an existing user, navigate into the **Options** ⇒ **User management** page.



1. Select user by clicking **user name**
2. Click **Remove** button

6.2.3 To change user password

To change a password for an existing user, navigate into the **Options** ⇒ **User management** page.



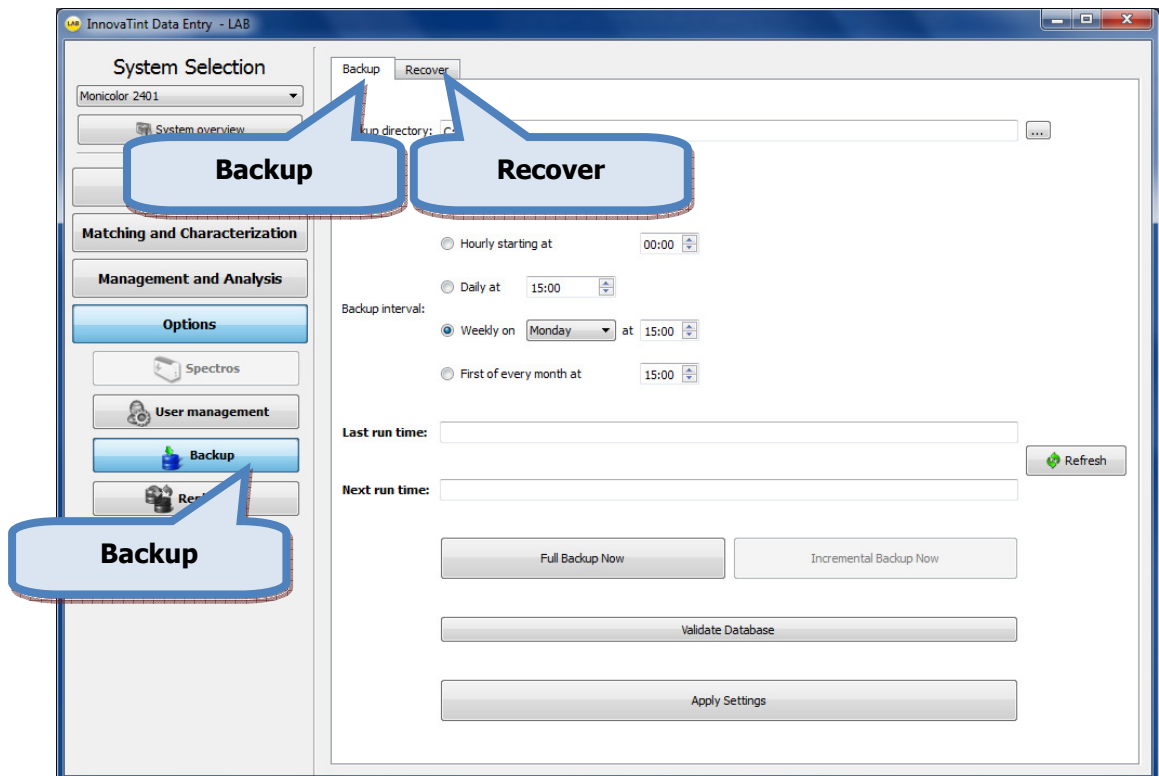
1. Select user by clicking **user name**
2. Enter new password to **New Password** text box
3. Re-enter new password to **Retype new password** text box
4. Click **Change password** button

6.3 Backup

In backup page you can:

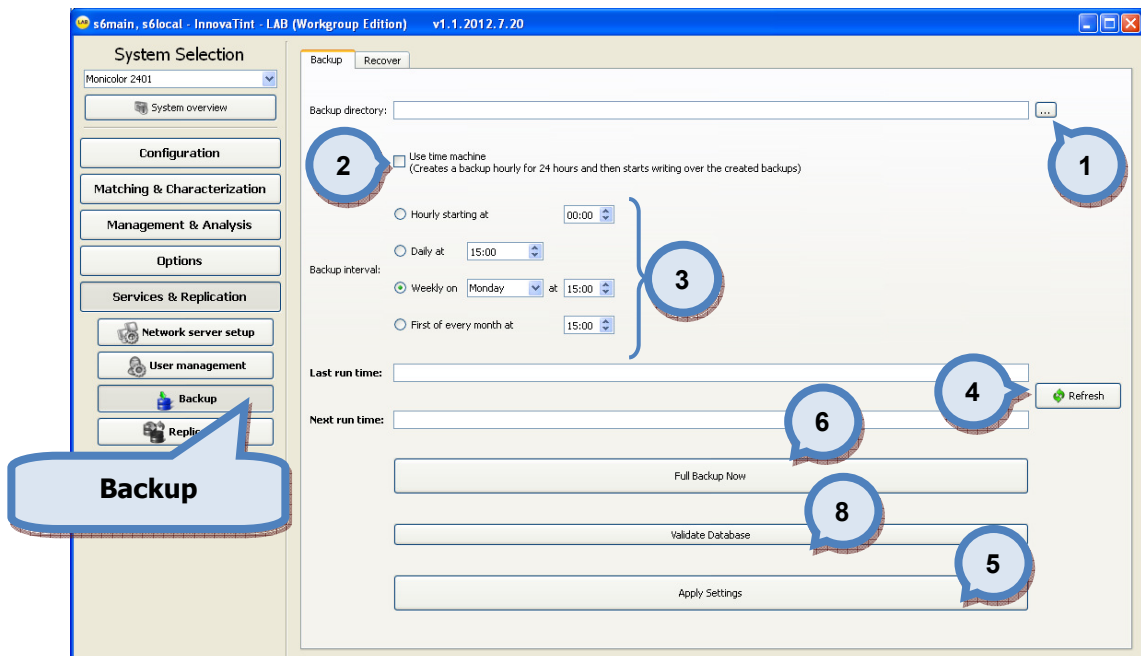
- Make backup if database you are working with
- Restore previously made database


There are 2 tab pages on this section; one for **backup** and one for **recover**.



6.3.1 Make database backup

To make **backup** file of your database navigate into the **Backup** tab page of the **Options** ⇒ **Backup** page.



1. Click  button to select or create **backup directory**
2. Enable **Use time machine** check box if needed ¹⁾
3. Set **backup interval**
4. Click **refresh button** to see next scheduled backup time on Next run time text box
5. Click **Apply settings** button

To make **full backup** immediately

6. Click **Full Backup Now** button
7. Select backup directory

To check database integrity

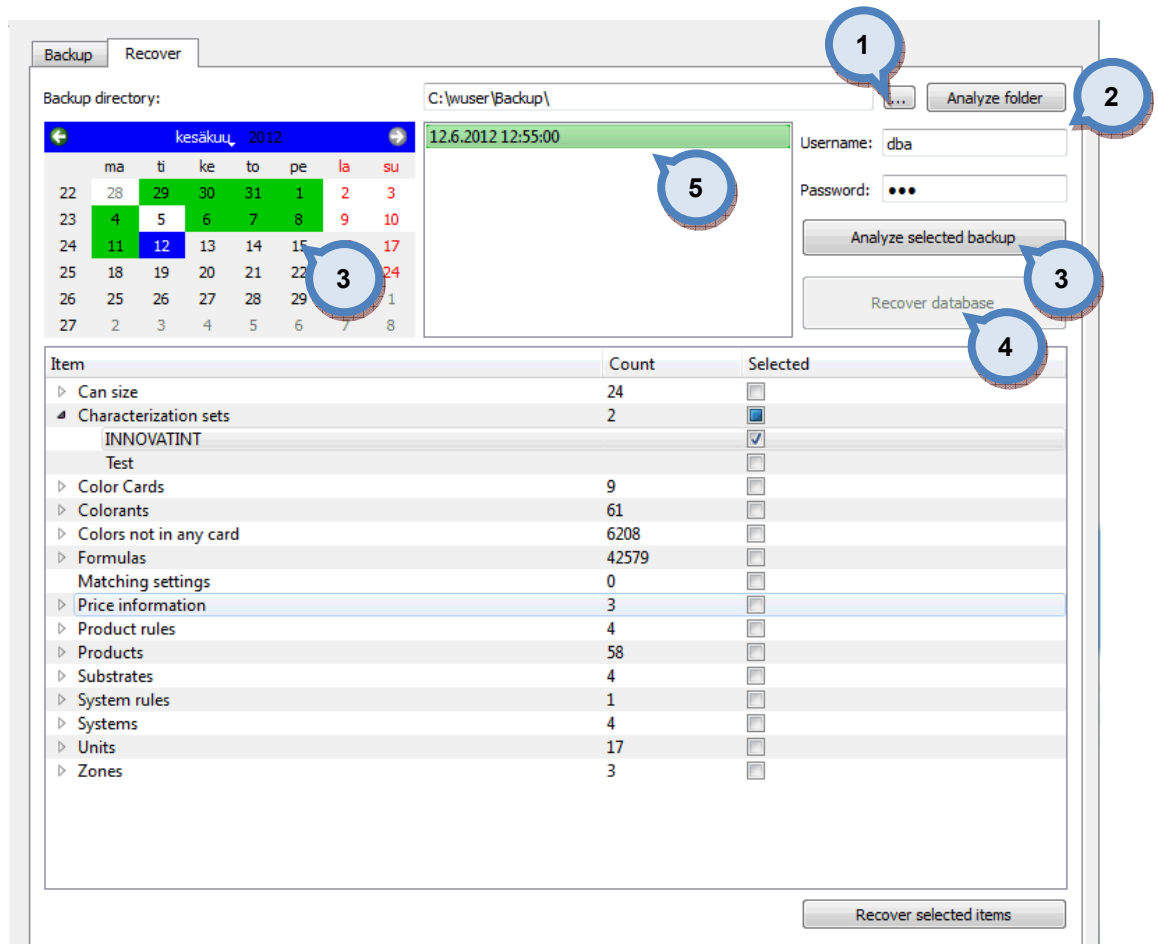
8. Click **Validate Database** button

¹⁾ Use time machine function stores latest 24 database backup files in network server and, therefore, save disk space.

6.3.2 Recover a database

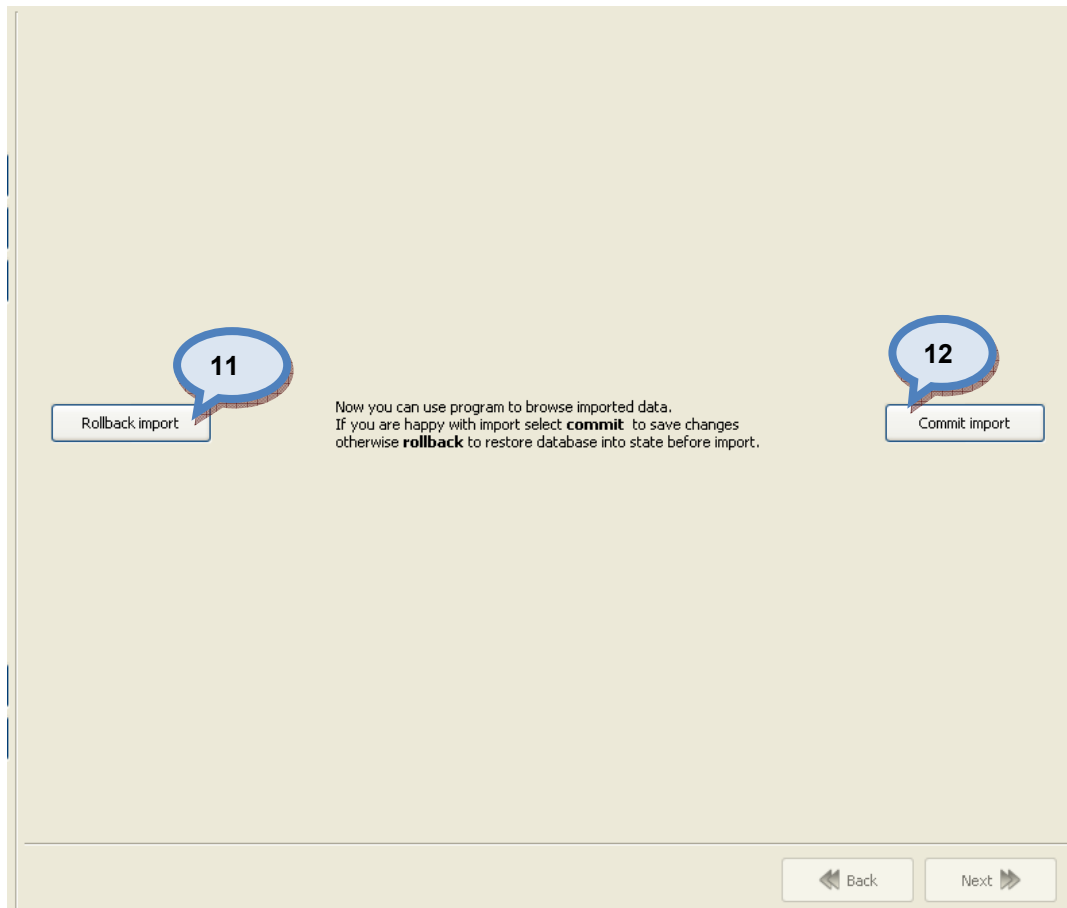
With database recovery function, you can pre-view and recover previously made database back-up. Current database files will be moved under "old" folder and previously made back-up database will be replaced to use.

To **recover** the database, navigate into the **Recover** tab page of the **Options** ⇒ **Backup** page.



Toiminta:

1. Click button to select or create **backup directory**
2. Click the **Analyze folder** button.
3. The calendar will display the dates with the valid backup file with the green background colour.
4. Select date from the calendar.
5. Select the **backup file** from the list. The list will display the backup files with the times.
6. Enter the username and the password for the backup database.
7. Click the **Analyze selected backup** button.
8. The list will display the item details of the backup file.
9. Select **items to be recovered** from the list by enabling the check box of desired item.
10. Click the **Recover selected items** button.

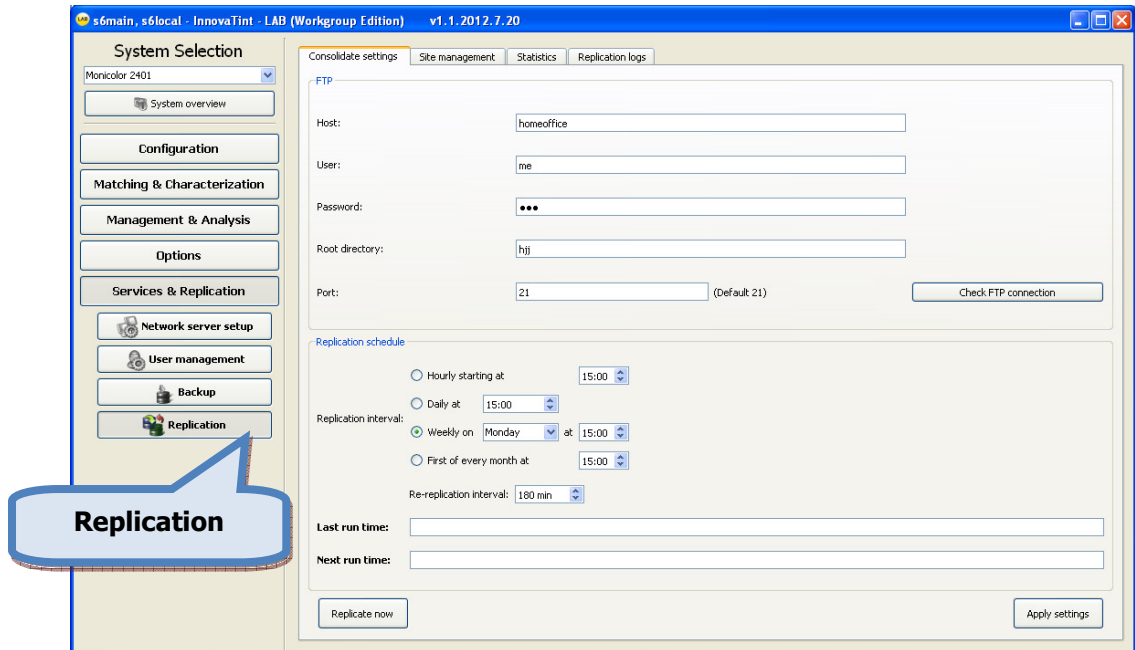


- 11.** Click the **Rollback import** button to cancel the recover process.
- 12.** Click the **Commit import** button to proceed to recover process.

6.4 Replication

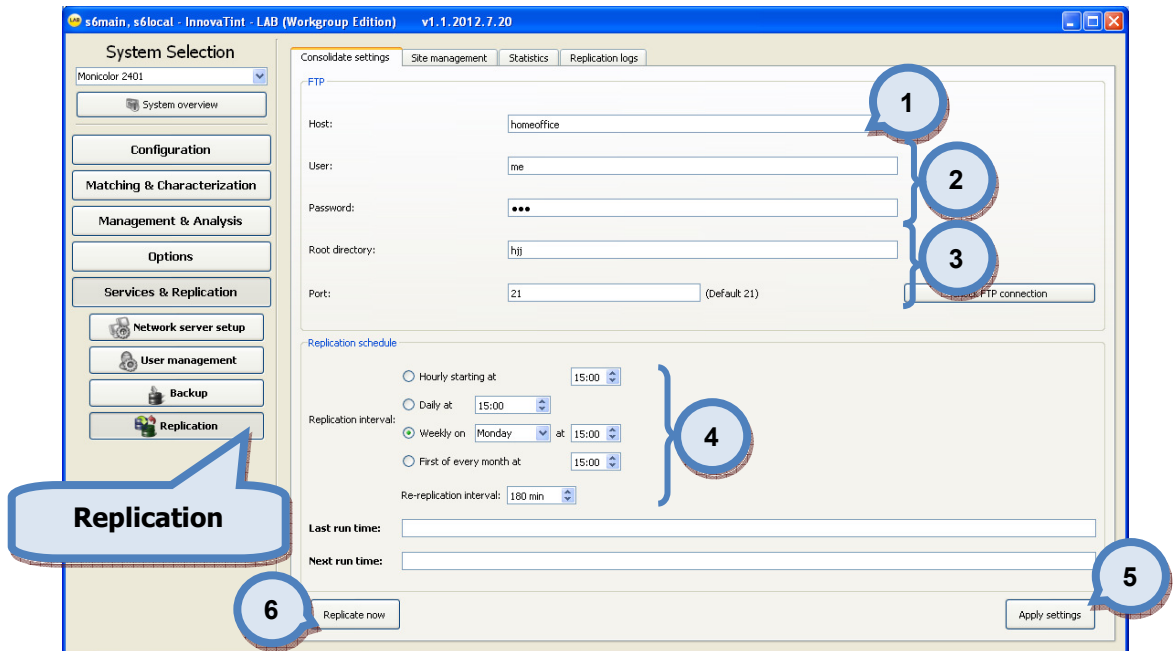
In the Replication page, you have four tab pages:

- Consolidate settings
- Site management
- Statistics
- Replication log



6.4.1 Make consolidation settings

To make consolidate settings, navigate into the **Consolidate settings** tab page of the **Options** ⇒ **Replication** page.



1. Enter **host name**

2. Enter **user name** and **password**

3. Enter **root directory** and **port**

You can also check connection settings are correct by clicking **Check FTP connection** button

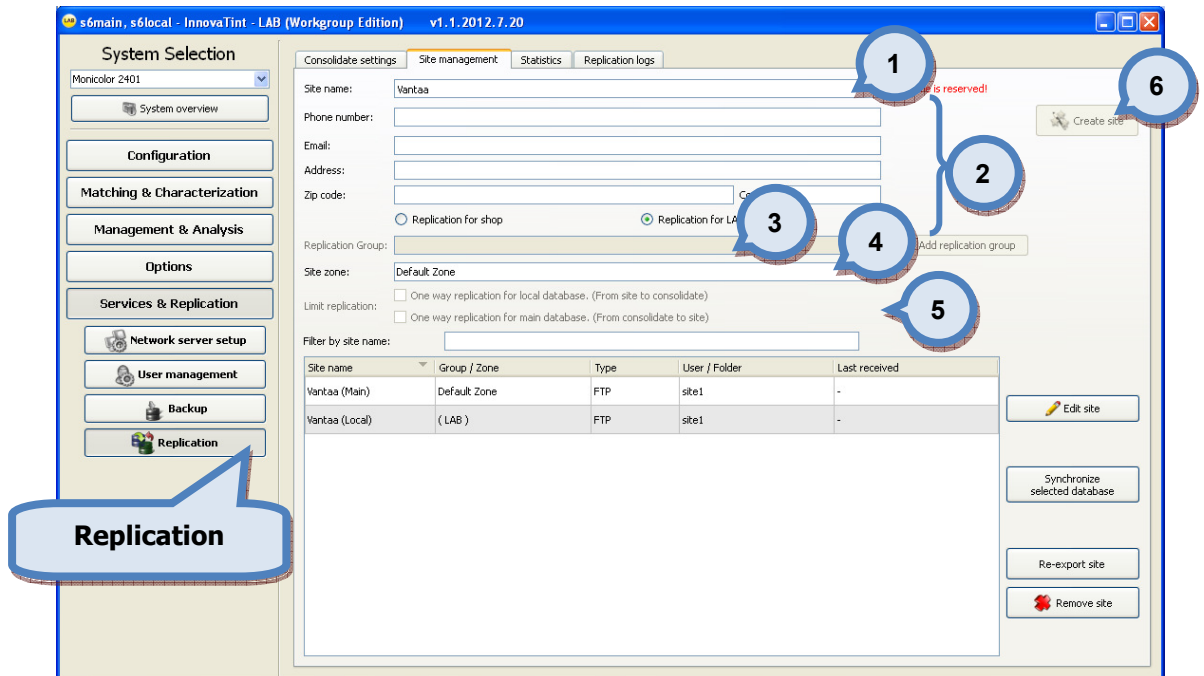
4. Set replication interval settings (**time**)

5. Click Apply settings button

6. You can also click Replicate now to start replication immediately, as long as FTP settings and user info is set.

6.4.2 Create a new site

To create a new site, navigate into the **Site management** tab page of the **Options** ⇒ **Replication** page.

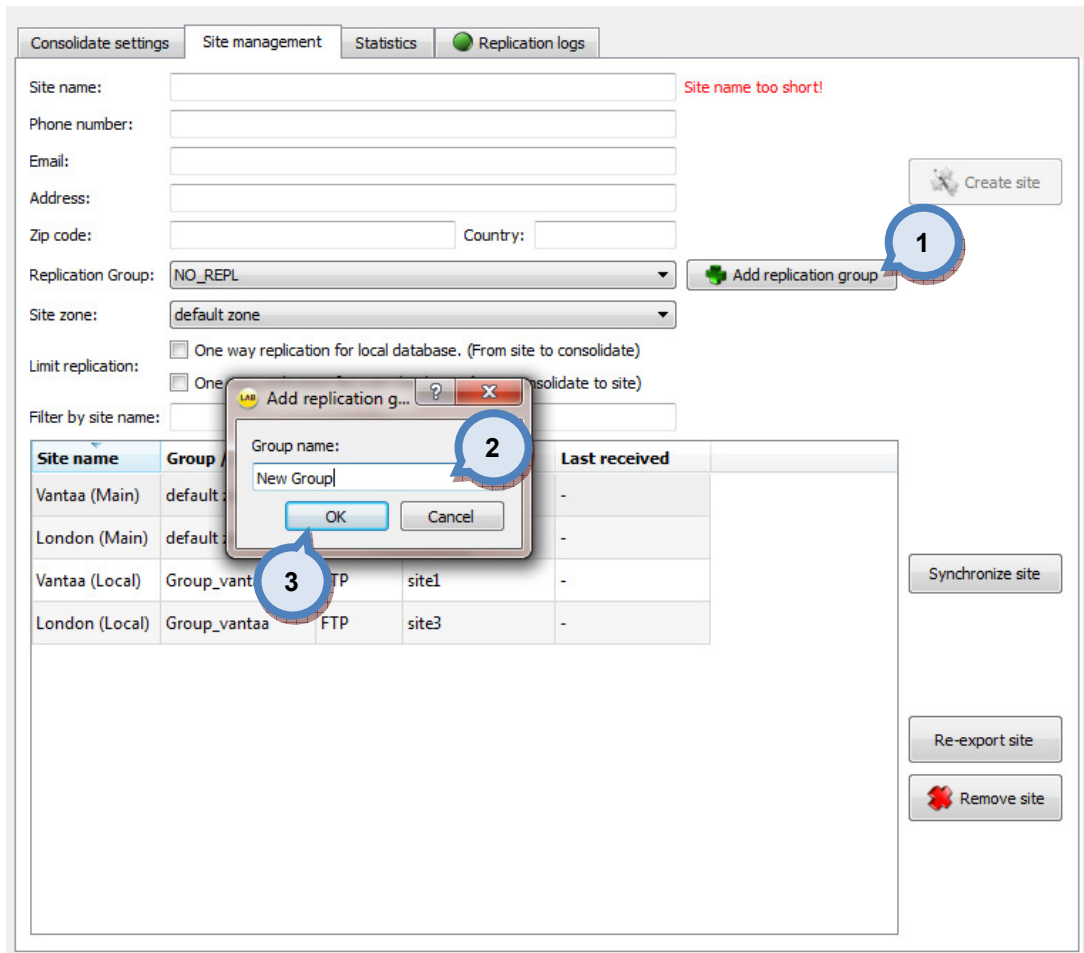


1. Enter site name to **Site name** field
2. Enter **contact information**
3. Select **Replication Group** from dropdown list
4. Select **Zone** from dropdown list
5. Enable check boxes **One way replication** if needed
6. Click **Create site** button
7. Select **folder** for file from browser or create new folder
8. Click **Ok** button

Note: The administration rights are needed, and settings at the first page (consolidate settings) needs to be prefilled In order to create a new site.

6.4.3 Create a new replication group

To create a new replication group, navigate into the **Site management** tab page of the **Options** ⇒ **Replication** page.



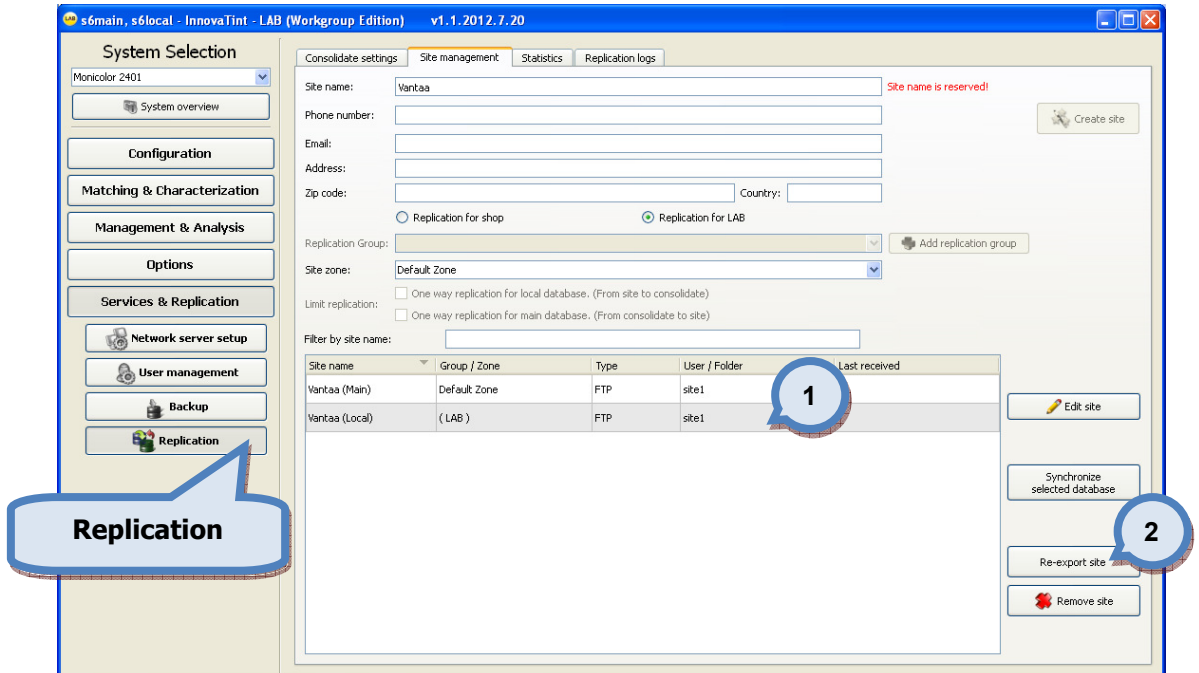
1. Click **Add replication group** button.
2. Enter name for group into **Group name** text box
3. Click **Ok** button

Replication group determines the way of handling of local database (if replication is enabled in both directions). When local sites have the same replication group, they are sharing all formulations, customer data and dispensing history, but they cannot see the same information of local sites with different replication groups.

6.4.4 Re-export a site

To re-export a site, navigate into the **Site management** tab page of the **Options** ⇒ **Replication** page.

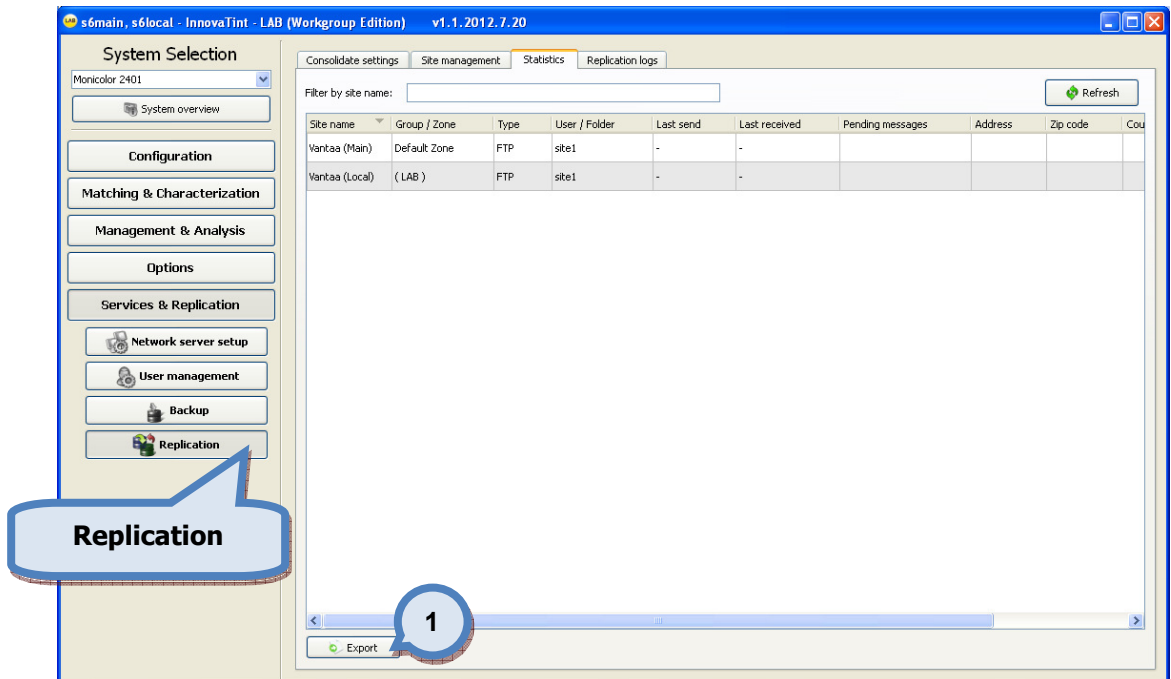
When replication process has run into an error, you can use **Re-export site** button to re-export database to selected site.



1. Select a site from the list
2. Click the **Re-export** site button

6.4.5 Export statistics

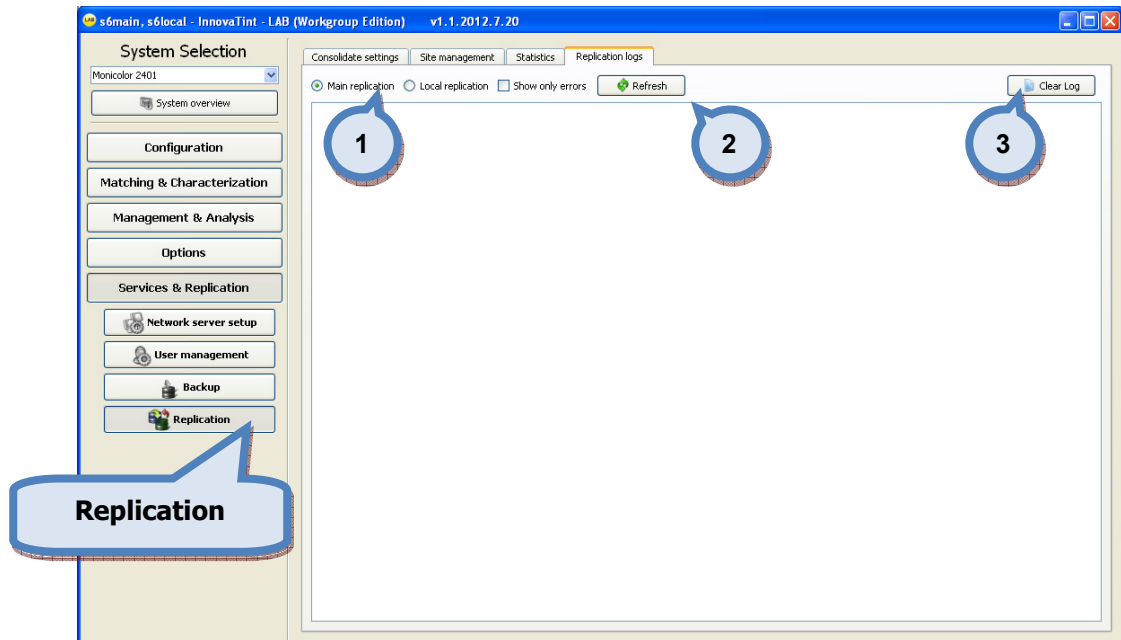
To export statistics, navigate into the **Statistics** tab page of the **Options** ⇒ **Replication** page.



1. Click **Export** button
2. Type **file name** and select folder to save
3. Click **Save** button

6.4.6 View replication log

To view replication log, navigate into the **Replication logs** tab page of the **Options** ⇒ **Replication** page.



1. Select **Main replication** or **Local replication** with radio buttons
2. Click **Refresh** button
3. Use **Clear log** button to clear log file