



InnovaTint

ULTIMATE

User Manual

From:

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Table of Contents

- GENERAL 3**
- 1. WORKING WITH THE INNOVATINT ULTIMATE 4**
 - 1.1. STARTING INNOVATINT 4
 - 1.2. CLOSING THE INNOVATINT PROGRAM 5
 - 1.3. SOFTWARE ACTIVATION / DEACTIVATION 6
 - 1.3.1. *Software license activation with an on-line connection* 6
 - 1.3.2. *Software license activation without an on-line connection* 7
 - 1.3.3. *Software license deactivation with an on-line connection* 8
 - 1.3.4. *Software license deactivation without an on-line connection* 9
- 2. MAIN WINDOW 10**
 - 2.1. ORDER STATUS 13
 - 2.2. ORDER LIST 14
 - 2.3. ORDER WITH WAITING... STATUS 18
 - 2.4. ORDER WITH DONE! STATUS 21
 - 2.5. CREATE A NEW ORDER 22
 - 2.5.1. *Color search* 28
 - 2.5.2. *Product search* 35
 - 2.5.3. *Can size search* 37
 - 2.6. ENTER CUSTOMER DATA 38
 - 2.7. EDIT CUSTOMER DATA 40
 - 2.8. CREATE A NEW COLOR FORMULA 42
 - 2.9. EDIT A FORMULA 44
 - 2.10. RESCALE THE FORMULA 46
- 3. HELP 47**
 - 3.1. USER MANUAL 47
 - 3.2. REMOTE CONNECTION 48
- 4. COLORANT LEVELS 50**
 - 4.1. LEVELS (COLORANT LEVEL INDICATOR) 50
 - 4.2. UPDATE COLORANT LEVELS (ALL COLORANTS VIEW) 51
 - 4.3. COLORANT LEVELS (SINGLE COLORANT VIEW) 55
- 5. TOOLS AND SETTINGS 57**
 - 5.1. OPTIONS 60
 - 5.2. COLOR MATCHING AND REPLICATION 64
 - 5.3. STATISTICS 67
 - 5.4. EXTERNAL DEVICES 70
 - 5.5. PRICES AND STOCK 80
 - 5.5.1. *Price* 81
 - 5.5.1. *Stock* 88
 - 5.5.2. *Info settings* 90
 - 5.6. DISPENSER INFORMATION AND COMMANDS 94
- 6. PRODUCT INFO 104**
- 7. HISTORY 105**
 - 7.1. ORDERS VIEW 106
 - 7.2. CUSTOMERS VIEW 108
- 8. BAR CODE DRIVEN TINTING 110**
- 9. APPENDIX 1 112**
- 10. APPENDIX 2 114**
- 11. APPENDIX 3 115**
- 12. APPENDIX 4 116**
- 13. APPENDIX 5 141**

General

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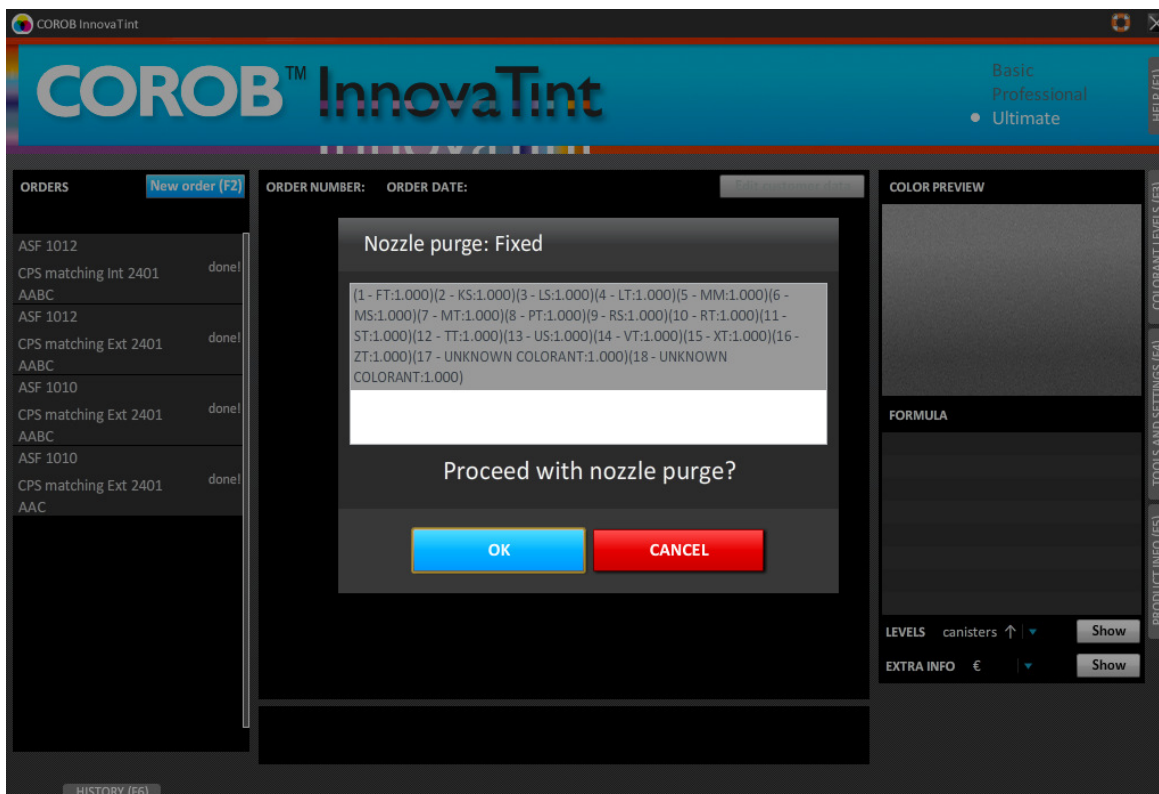
(Reference software version 1.4.0 beta 6. 7.1.2013)

1. Working with the InnovaTint Ultimate

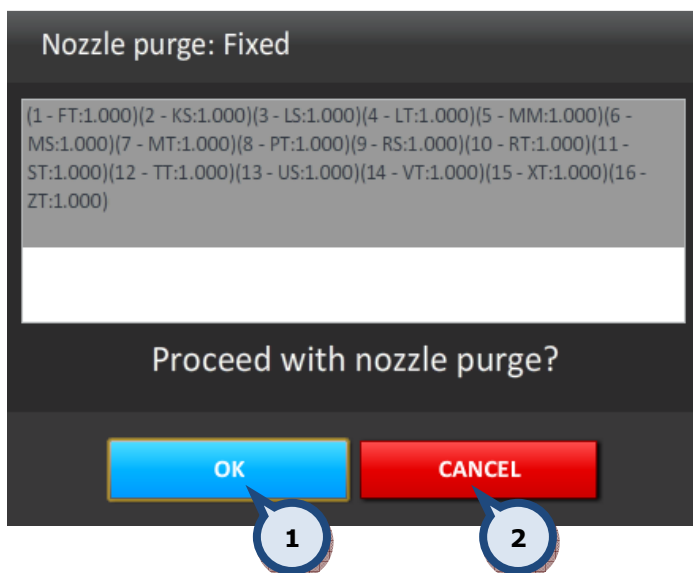
1.1. Starting InnovaTint

InnovaTint Ultimate can be opened by using the desktop short cut, or from the start menu.

Start menu ⇒ **Programs** ⇒ **Corob Windows Software** ⇒ **InnovaTint 1.4.0**




When starting the program, the nozzle purge operation appears.

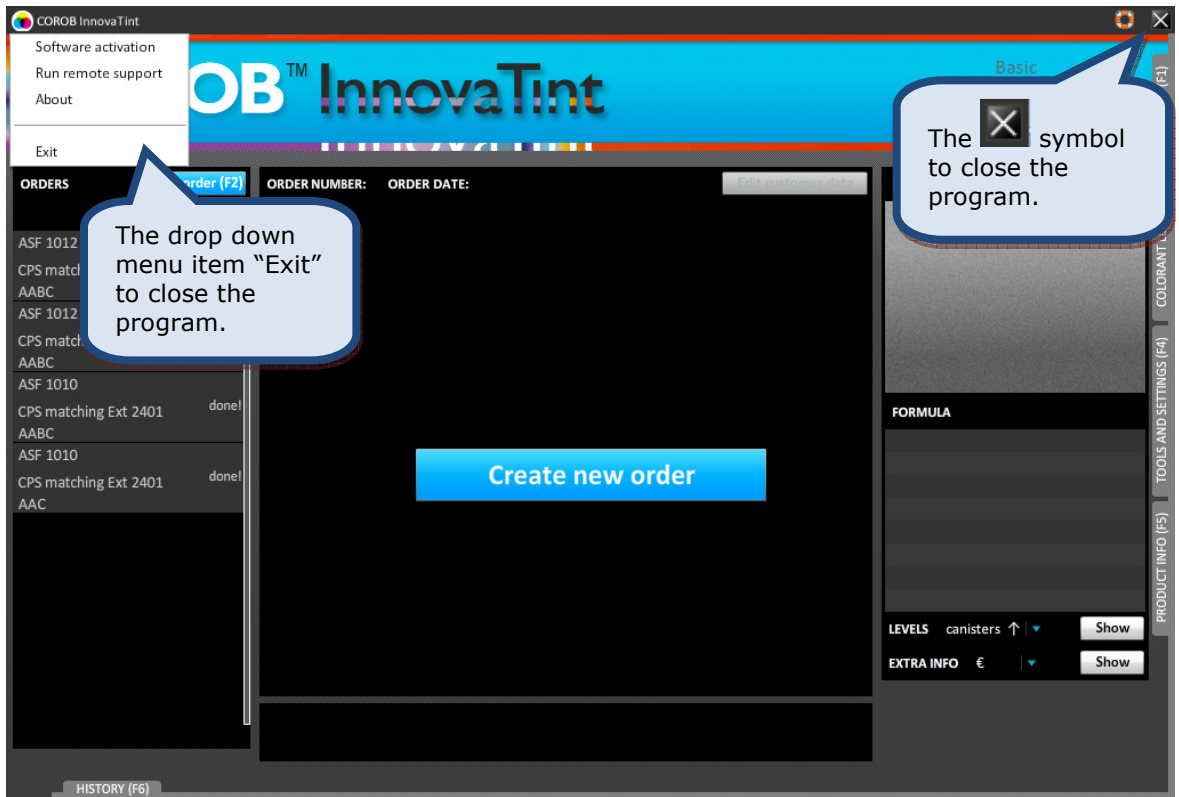


- 1.OK:** The button to start the purge.
- 2.ABORT:** The button to continue the program startup without the tinting machine purge operation.

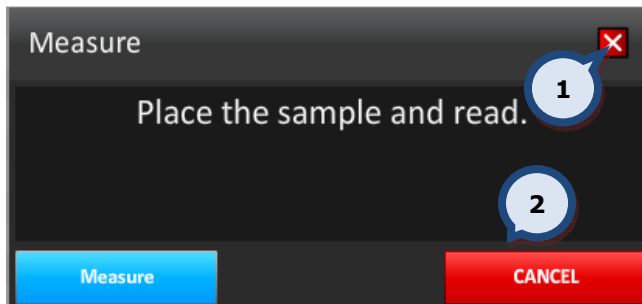
Note: See further information about the purge operation in **section 4.6**.

1.2. Closing The InnovaTint program

The InnovaTint program can be closed from either the  symbol (on the upper right corner of the main window), or from the drop down menu (on the upper left corner of the main window).



When a pop-up window is displayed, it can be closed in two ways:



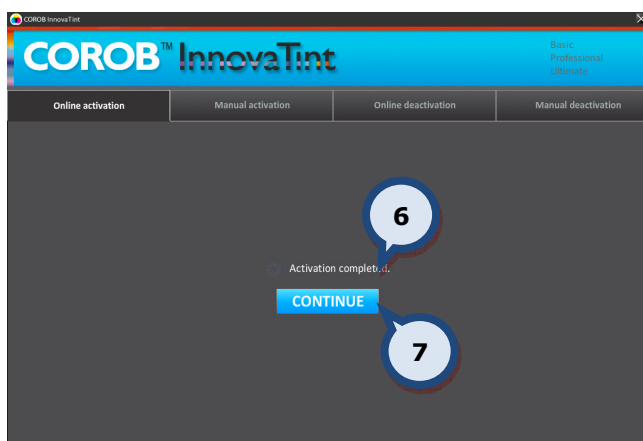
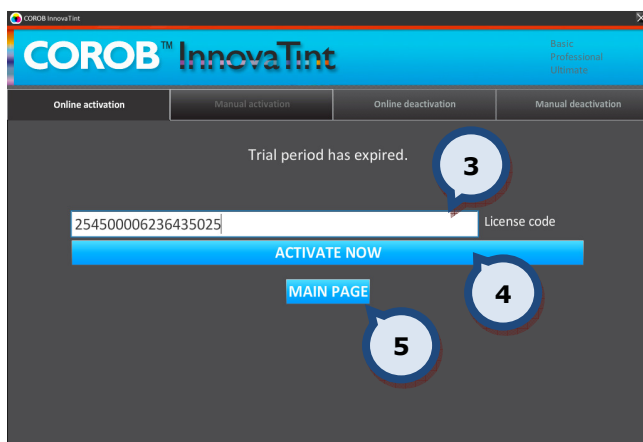
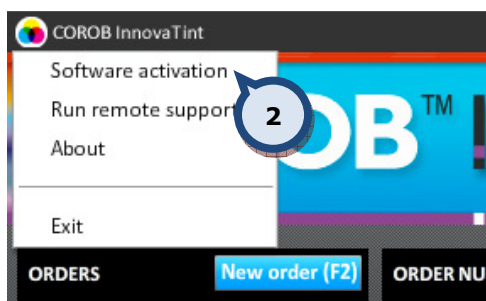
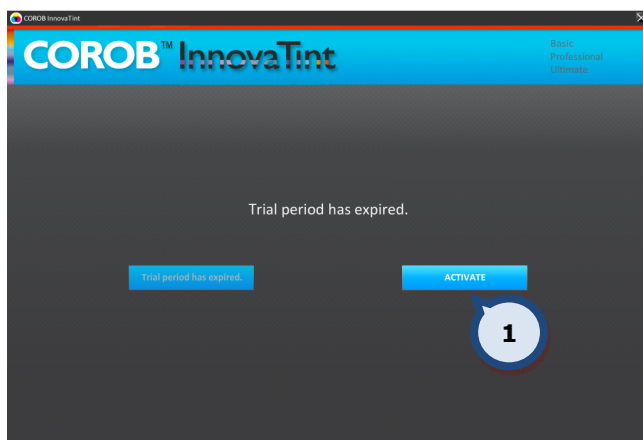
1.X: Click on the X button to exit this page.

2. CANCEL: Click on the CANCEL button to exit.

1.3. Software activation / deactivation

1.3.1. Software license activation with an on-line connection

When the trial period has expired, the following screen is displayed when starting the program.



1.ACTIVATE: The button to proceed to the software activation page.

2.Alternatively, during the trial period the activation screen can be navigated to from the upper left hand side menu.

3.License code: The text field for the license code obtained during the purchase of the software.

4.ACTIVATE NOW: The button to activate the software.

5.MAIN PAGE: The button to return to the previous screen.

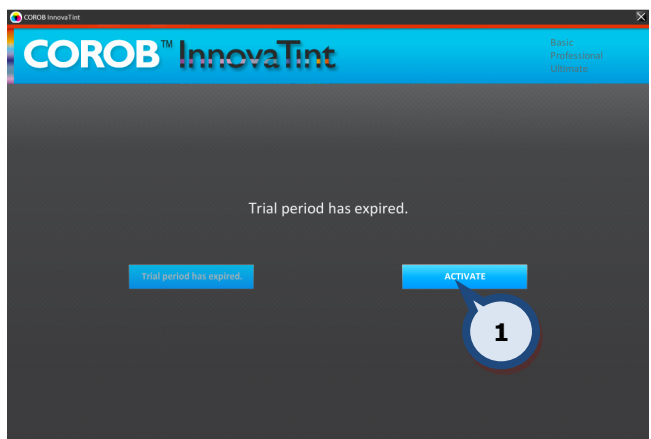
6.Activation completed text will appear if the activation was successful. If the code was not correct, the "Invalid license code" error message is displayed.

7.CONTINUE: The button to return to the main screen of the program.

See further instructions about this function in the separate **InnovaTint activation manual**.

1.3.2. Software license activation without an on-line connection

When the trial period has expired, the following screen is displayed when starting the program.



1.ACTIVATE: The button to proceed to the software activation page.



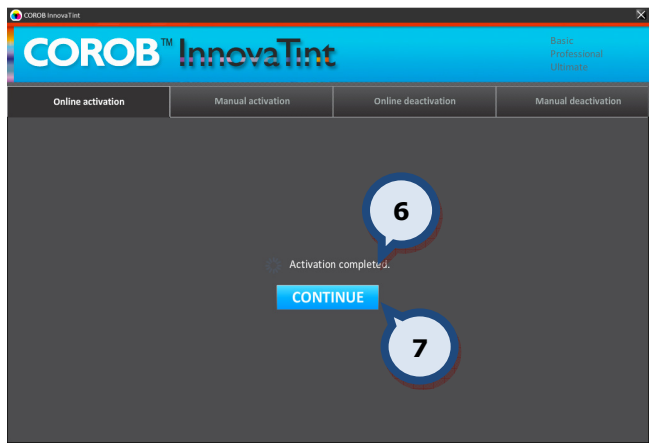
2. Alternatively, during the trial period the activation screen can be navigated to from the upper left hand side menu.



3.INSTALLATION ID: The code needed to be input into the Nalpeiron activation portal (www.internetactivation.com), together with the license code provided at the time of purchase. Alternatively both codes can be sent to Chromaflo (sworders@cpscolor.com) to obtain the Unlocking code.

4.Unlocking code: The text field to input the unlocking code obtained from either the Nalpeiron activation portal or from Chromaflo.

5.ACTIVATE NOW: The button to activate the software.



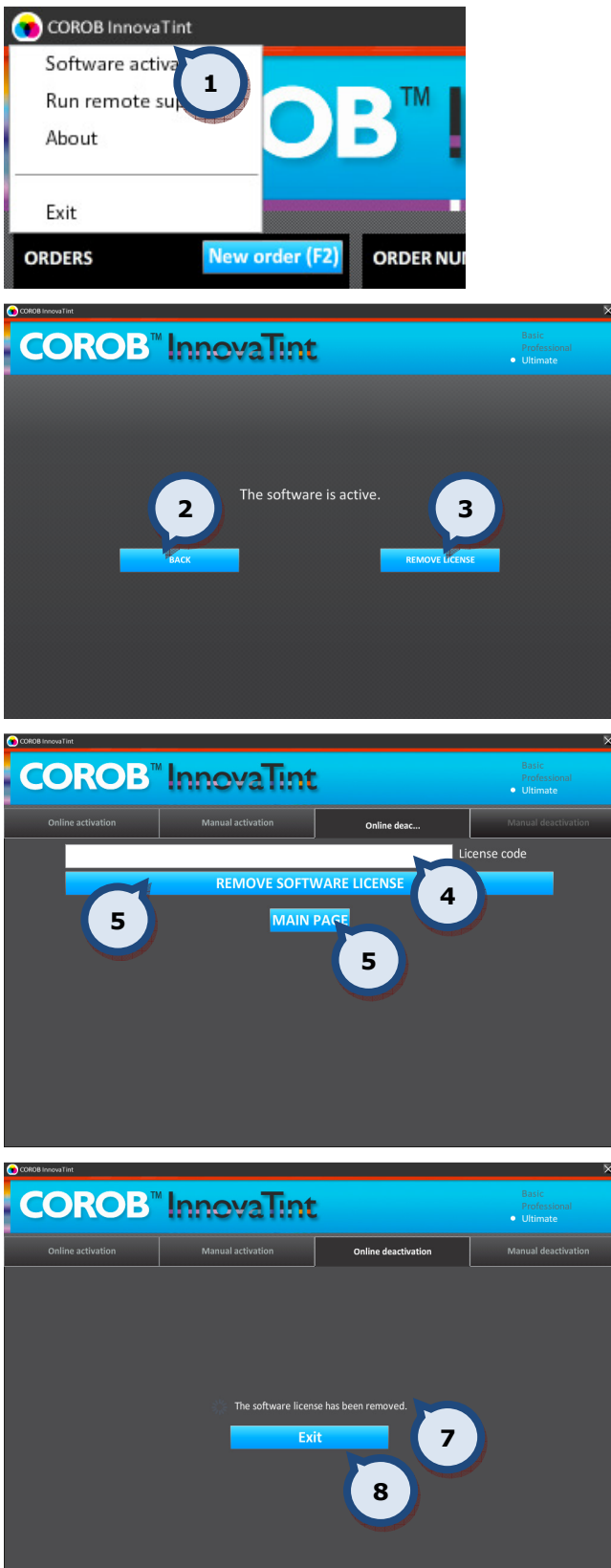
6. 'Activation complete' text will appear if the activation was successful. If the code was not correct, the "Invalid license code" error message is displayed.

7.CONTINUE: The button to return to the main screen of the program.

See further instructions about this function in the separate **InnovaTint activation manual**.

1.3.3. Software license deactivation with an on-line connection

The software license can be removed from the use at anytime via the Software activation section.



1.Navigate to the activation screen in the upper left hand side menu.

2.BACK: The button to return to the main screen of the software.

3.REMOVE LICENSE: The button to proceed to the software license removal page.

4.License code: The text field for the license code obtained during the purchase of the software.

5.REMOVE SOFTWARE LICENSE: the button to remove the software license.

6.MAIN PAGE: The button to return to the previous screen

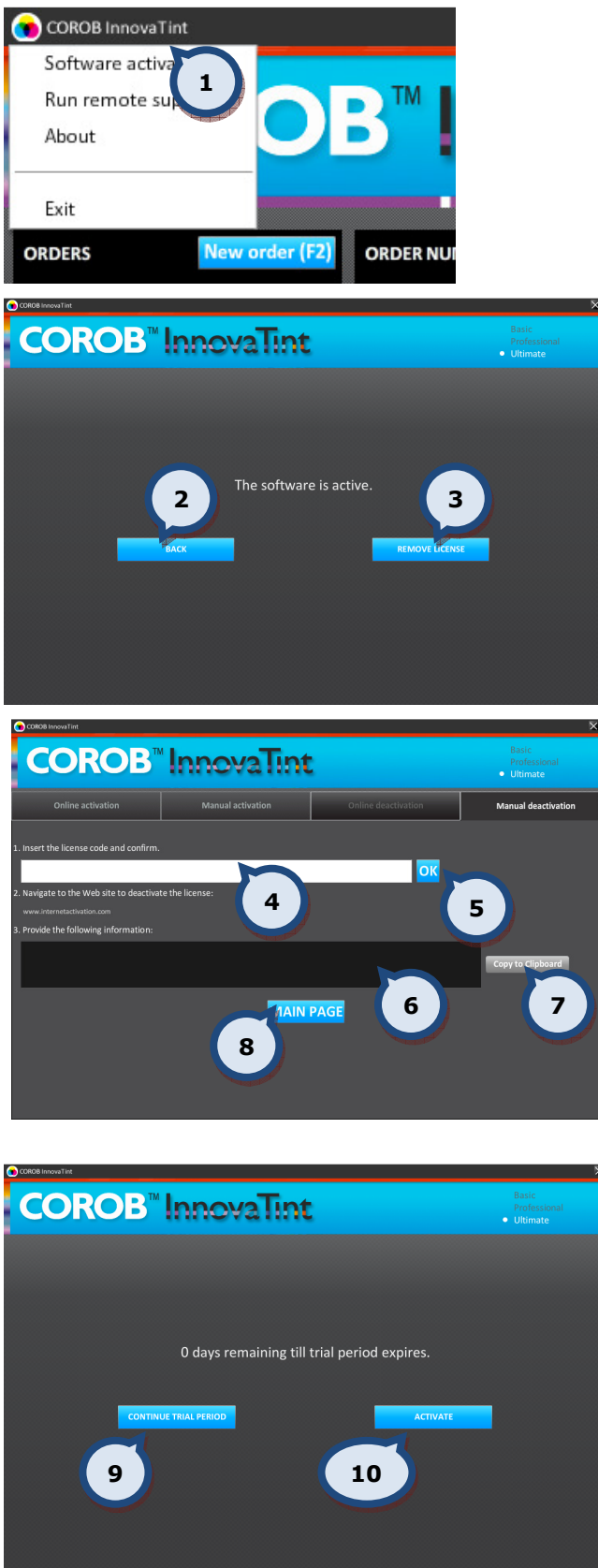
7.The software license has been removed' text will appear if the deactivation was successful. If the code was not correct, the "Invalid license code" error message is displayed.

8.EXIT: The button to exit the program.

See further instructions about this function in the separate **InnovaTint activation manual**.

1.3.4. Software license deactivation without an on-line connection

The software license can be removed from use at anytime via the Software activation section.



1.Navigate to the activation screen in the upper left hand side menu.

2.BACK: The button to return to the main screen of the software.

3.REMOVE LICENSE: The button to proceed to the software license removal page.

4.License code: The text field for the license code obtained during the purchase of the software.

5.OK: The button to generate the deactivation code.

6.The text field for the deactivation code.

7.Copy to Clipboard: The button to copy the deactivation code onto the clipboard.

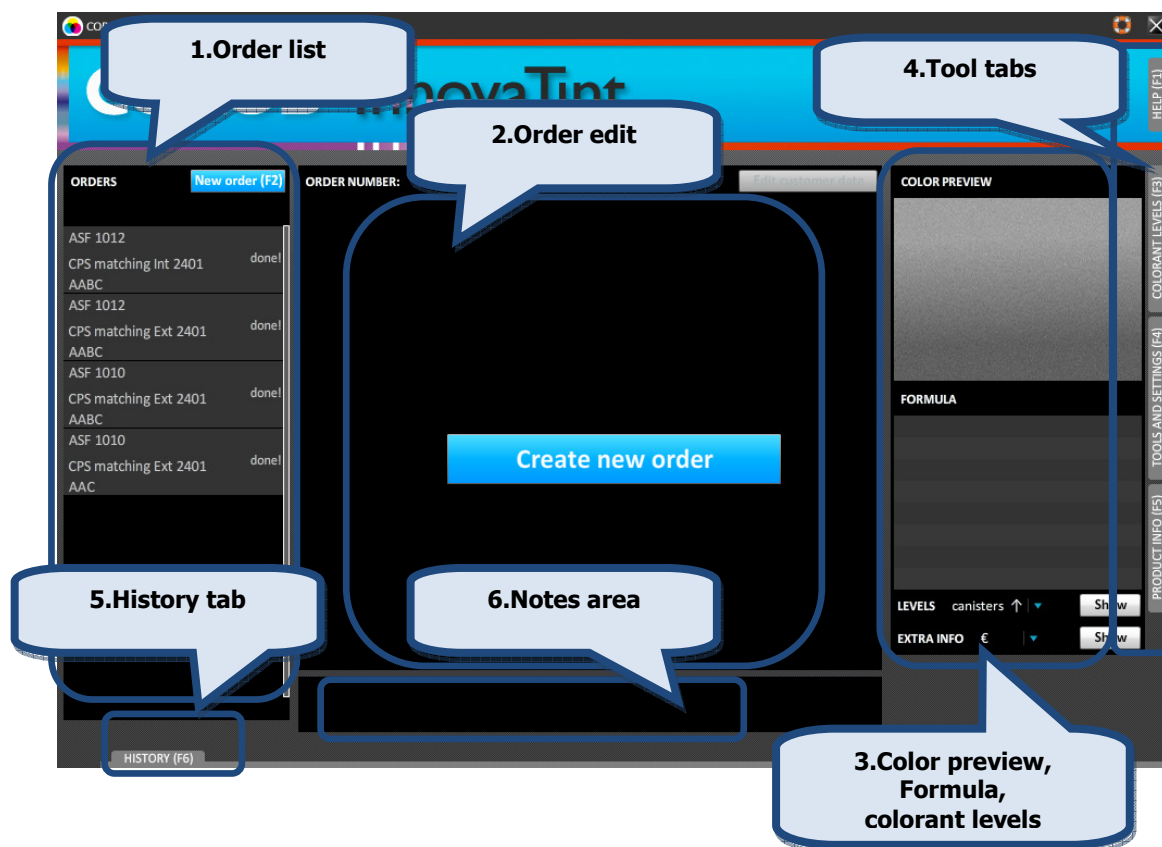
8.MAIN PAGE: The button to return to the previous screen.

9.CONTINUE TRIAL PERIOD: (No action)

10.ACTIVATE: The button to proceed back to the activation process.

See further instructions about this function in the separate **InnovaTint activation manual**.

2. Main window



The user interface is subdivided into the following main areas:

1.The left hand area: This area shows the **list of currently managed orders**. It shows the orders sorted by the processing time, including the color name, the product name and the processing status.

2.The central area: This is the area to **create and edit the orders**. Color formula, base product and can sizes can be selected. Also the order status can be changed by saving the order or processing it through the dispenser. See further details about this function in **section 2**.

3.The right hand area: This area is used to view various **details** such as color preview, colorants used in the currently selected formula, colorant levels in the dispensing machine canisters, and extra info, like: price, tax, margin, total volume, etc.

4.The **tool** tabs: Using the tabs on the very right side of the screen, the maintenance tools can be accessed. There are 4 tab pages available:

4.1 Help: This is the page to search help from the user's manual. See further details about this function in **section 3**.

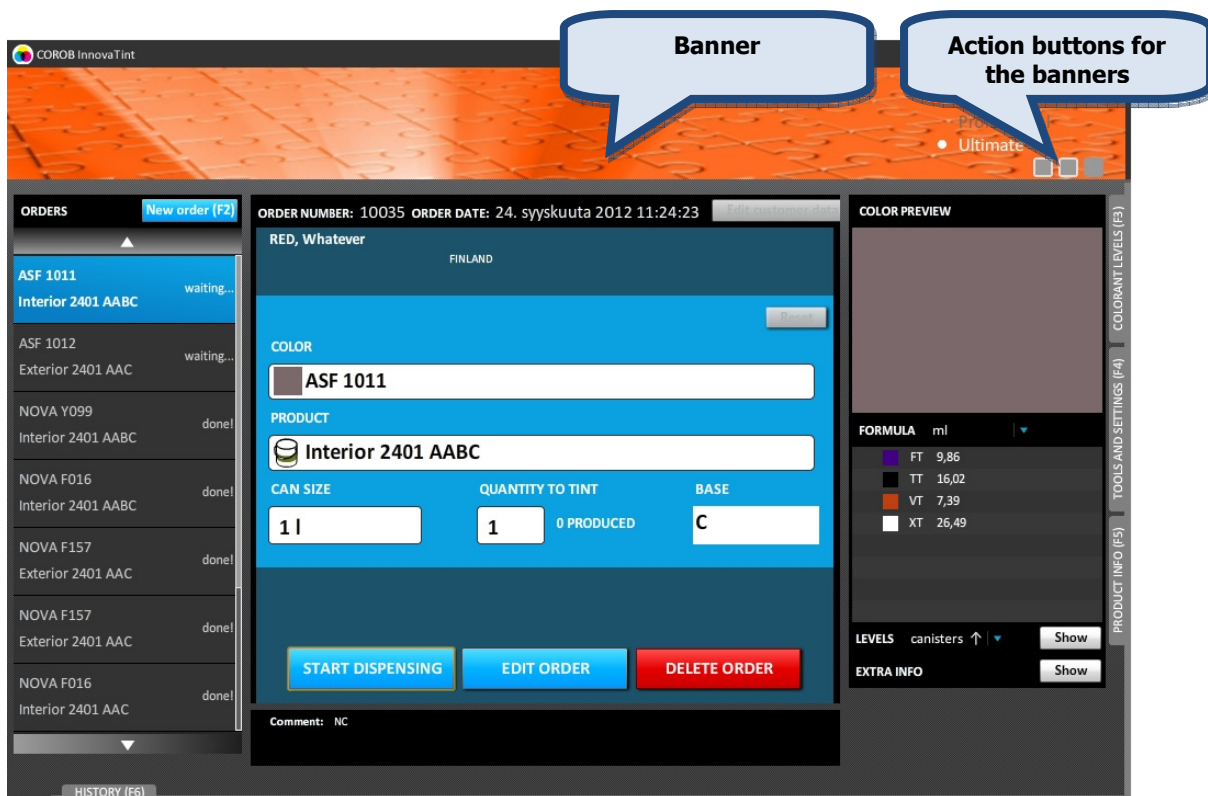
4.2 Colorant levels: This is the page to view and update the colorant levels of the colorant canisters of the dispensing machine. See further details about this function in **section 4**.

4.3 Tools and settings: This is the page for example to set the settings for the label printer, the spectrophotometer, and the dispensing machine. See further details about this function in **section 5**.

4.4 Product info: This is the page to view information about the product that has been selected. See further details about this function in **section 6**.

5.The **History** tab: All previously dispensed orders can be accessed using the History tab on the bottom of the application window. See further details about this function in **section 7**.

6.The **Notes** area: In this area, symbols for alternative color formula and primer suggestions are displayed. Also, this area provides information regarding the formula for the chosen color, for example if the formula is low hiding (comment =LH). The comment can then be explained to the customer in advance.

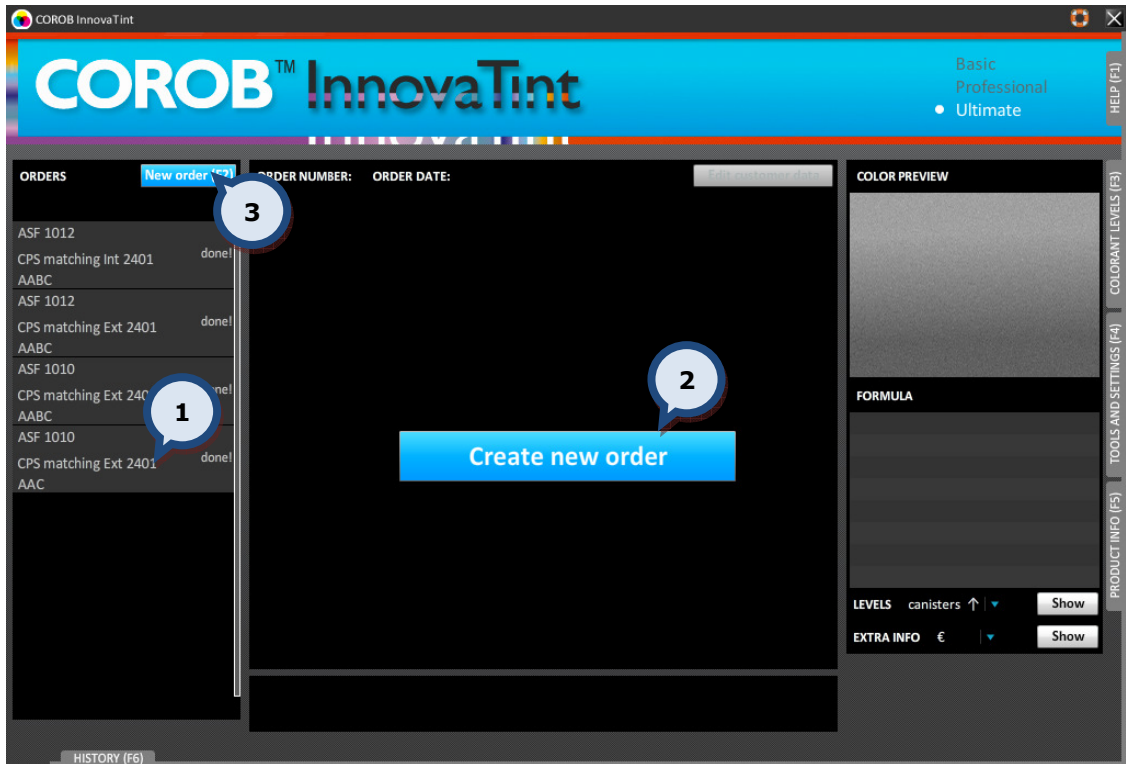


The user interface has also the banner area that is changeable. In the banner, there is the possibility to display customized company banners. Multiple banners with a rotating or looping function can also be displayed. It is always possible to return to the previous banner with the action buttons on the lower right hand side of the banner. The banners to be displayed can be changed during the replication process. This functionality is handled with the **InnovaTint LAB** software.

The program starts in the main window with the ORDERS list on the left hand side of the screen. From this window previously made orders can be selected.

The software will create a new, empty order, assigning it a unique ID (for the future reference) and a timestamp. The newly created order will have an **unconfirmed!** Status. This will be displayed in the left area of the application window, on top of the orders list. At this stage, the order is not yet saved into the program.

To complete the order and save it, making it available for dispensing, a color, a base product and a can size must be filled in. The selection of this data can start from the color or from the product, independently. Possible choices are offered based on the current color/product selections, upon compatibility and upon availability of products stocks, colorants level etc.



1. Select an order: Click on a previously made order from the orders list.

2. Create new order: The button to create a new order.

3. New order: An alternative button to create a new order.

Alternatively, click the **F2** function button on the keyboard to create a new order.

See further instructions on creating a new order in **section 2.5**.

2.1. Order status

All dispensing jobs are handled with orders that have been created within the InnovaTint software. The main tasks will be to create, edit, and dispense saved orders. All orders will have a status depending on what stage of the process they are.

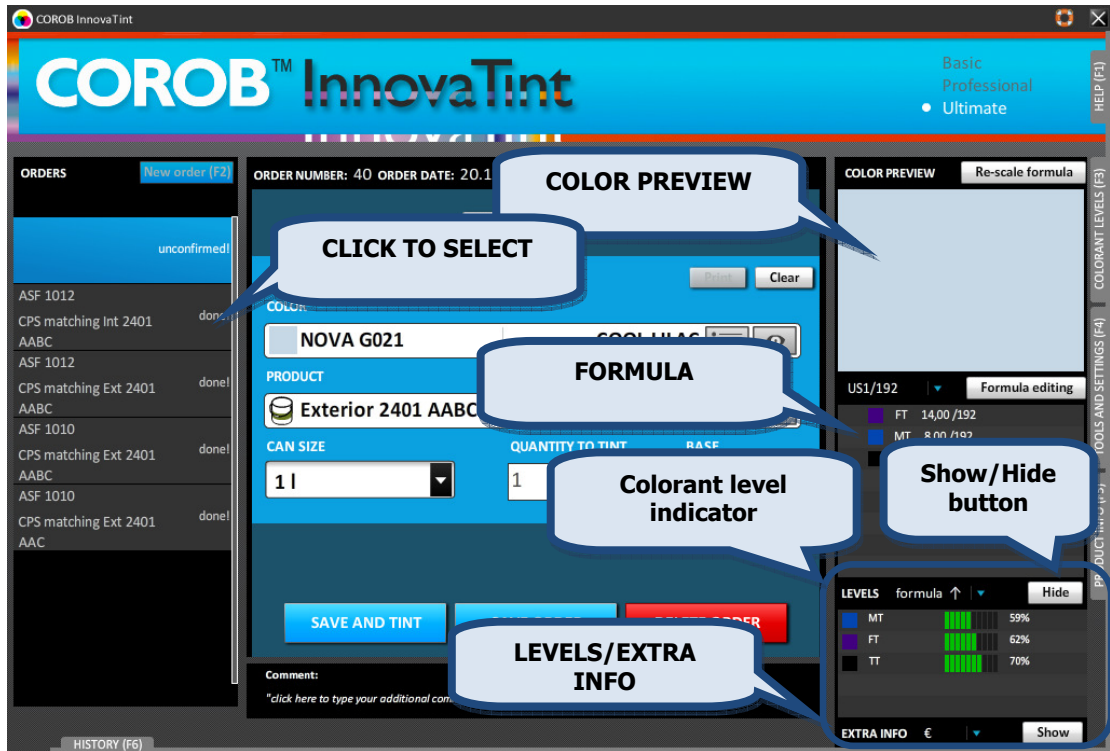
Possible orders statuses are:

unconfirmed!	The order will remain in the unconfirmed! status until all of the mandatory information has been filled in (color formula, base paint, can size, etc) and saved.
waiting...	The order will have the waiting... status when all of the mandatory information has been filled in, and the order has been saved.
preparing...	The order will have the preparing... status when the order has been sent to the dispenser and the dispensing is in progress.
done!	The order will have the done! status when it has been processed by the dispenser.

2.2. Order list

On the left hand side of the screen is the ORDERS list. Orders with the waiting... status can be dispensed or edited. Orders with the done! status can be re-dispensed or used as a template for new orders.

Saved orders can be selected from the orders list, by clicking on the order field. When an order has been selected from the list, the **COLOR PREVIEW**, **FORMULA**, **EXTRA INFO**, and **COLORANT LEVELS** become visible on the right hand side of the screen.



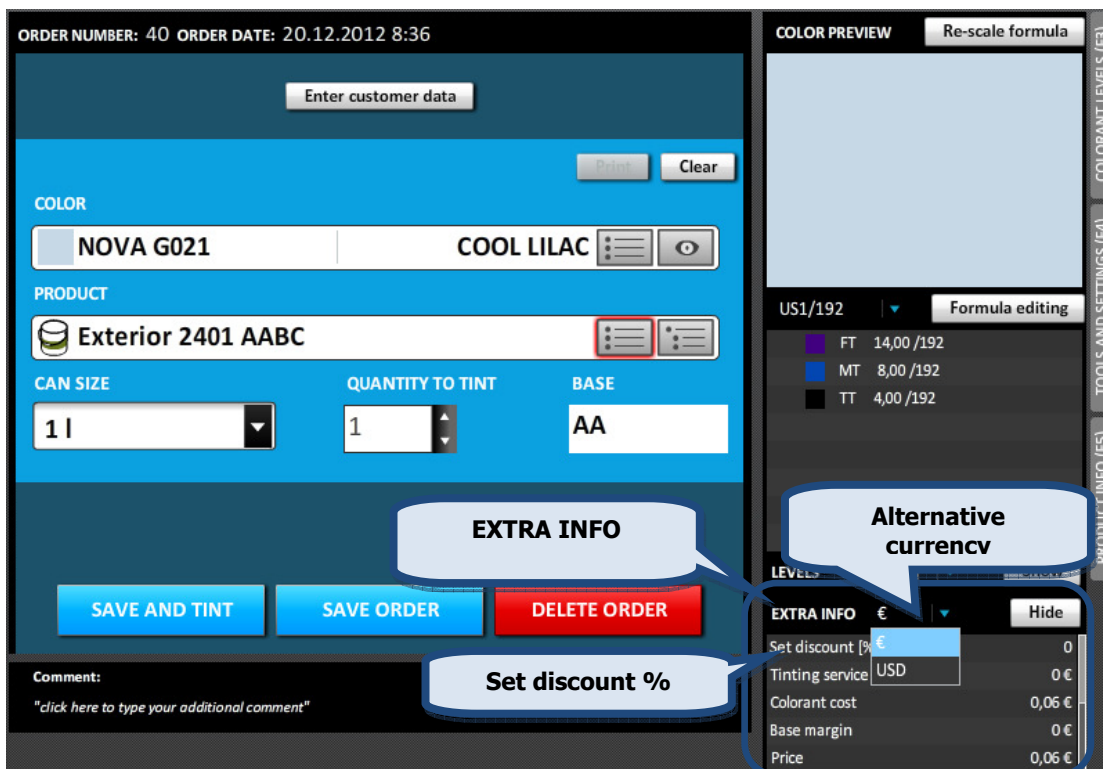
The default formula unit on the FORMULA display can be set from the Options section of the Tools and settings page. See further instructions about this function in **section 5.1**. Alternatively, the unit of the formula display can be changed by selecting an alternative from the drop down list.

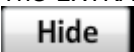





Items to be shown on the EXTRA INFO table can be set from the **Extra information and Hide/Show items sections of the Info settings tab page of the Tools and settings > Prices and Stock >Info settings page**. See further instructions about this function in **section 5.5.2**.

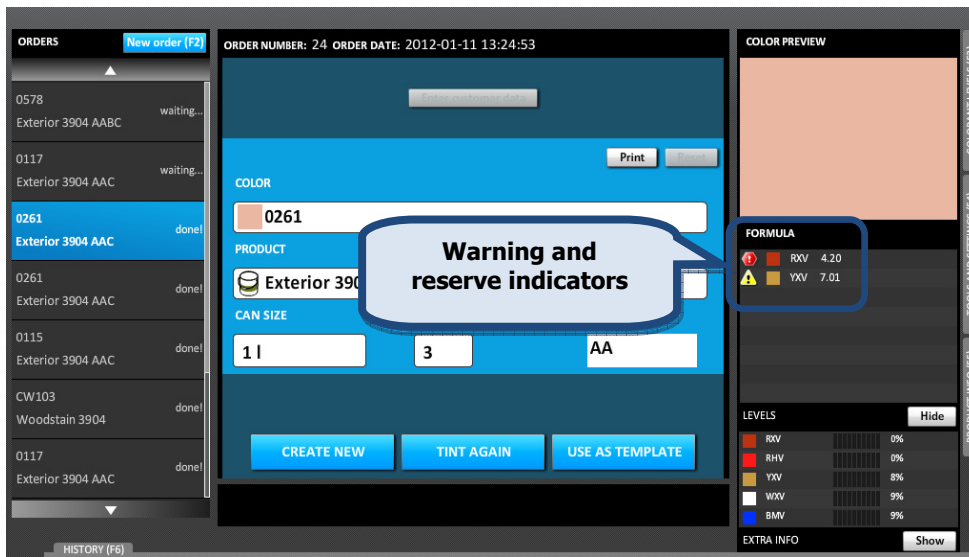
Note1: A discount (%) for the order can be set by double clicking with the left mouse button on the value in the Set discount (%) field.

Note2: An alternative currency to display order prices can be selected from the dropdown list. See further instructions about this function in **section 5.5.2**.



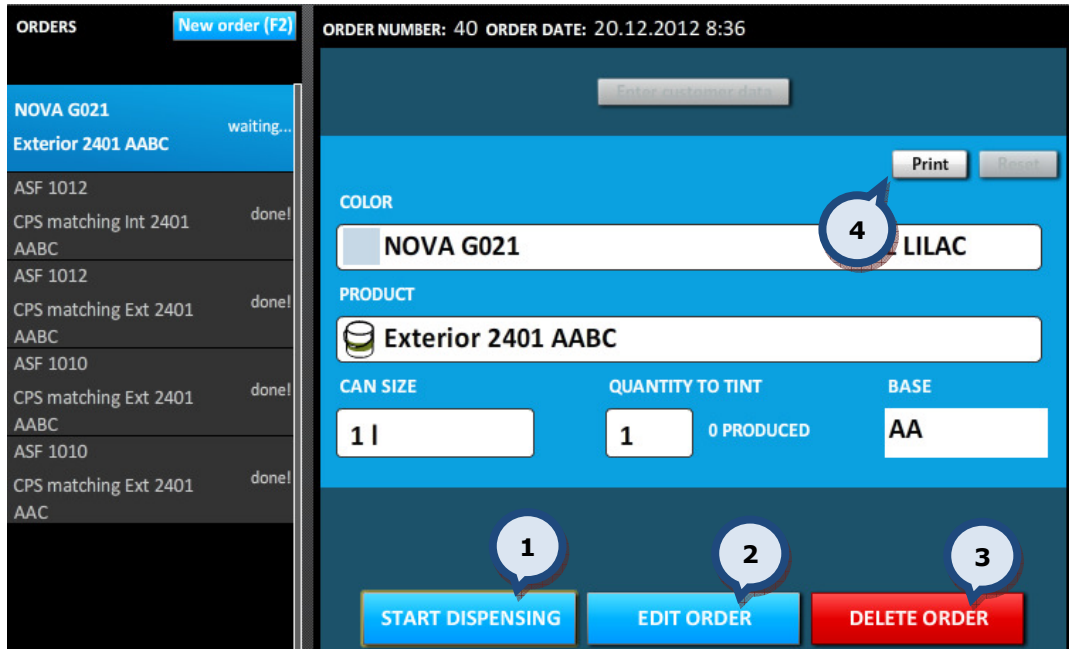
The EXTRA INFO and LEVELS can be set to be visible or hidden via the buttons:  and  and

If the colorant levels in the tinting machine canisters are below either the warning or reserve levels, the indicators  and  are displayed in the formula section, next to the colorant in question.



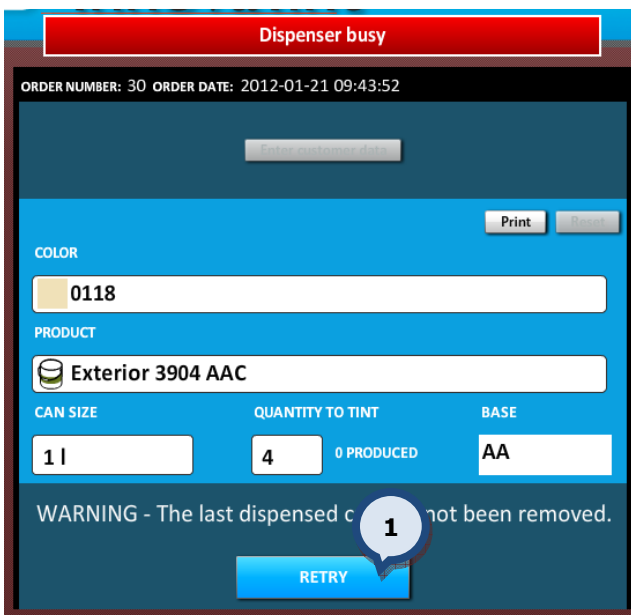
2.3. Order with waiting... status

When an order with the **waiting...** status has been selected from the order list, the following options become available:



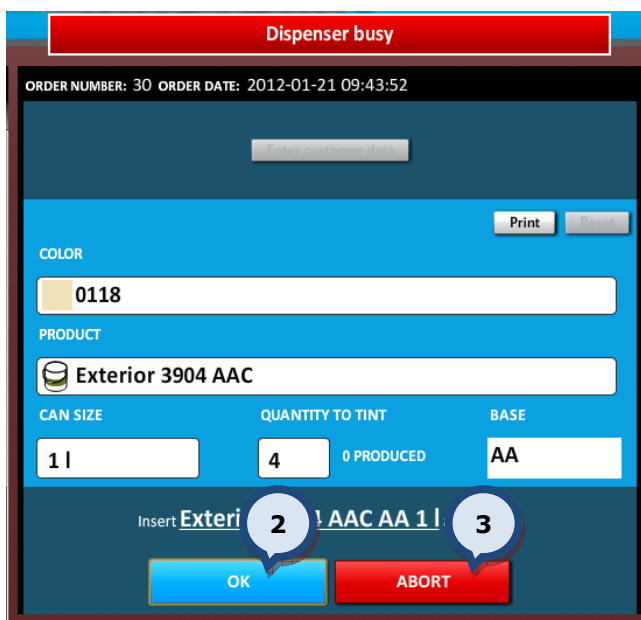
- 1.START DISPENSING:** The button to start dispensing the colorants for this order. See more details on the next page.
- 2.EDIT ORDER:** The button to edit this order. See more details on the following pages.
- 3.DELETE ORDER:** The button to delete this order.
- 4.Print:** The button to print a label for this order. See **section 5.4** to select a label printer.

When the **START DISPENSING** button has been clicked, the following window appears:



The following warning is displayed:
WARNING – The last dispensed can has not been removed if the “If Enable check of can change” is selected (Tools and settings > Dispenser information and commands > Dispenser general information section), and the paint can has not been removed from the dispensing machine after the previous dispensing.

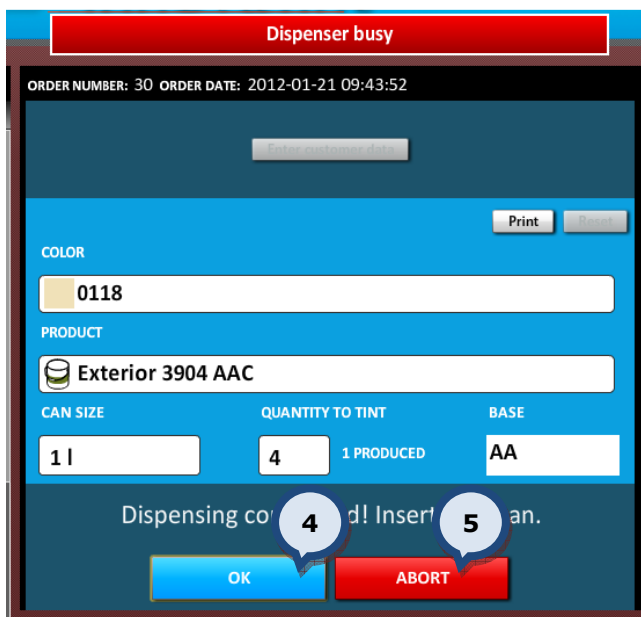
1. RETRY: The button to proceed with the dispensing process. (this will ignore the can change check warning)



2. OK: The button to start dispensing.

3. ABORT: The button to stop the dispensing process.

Note: The order status has a “waiting...” status when the dispensing process has been aborted.



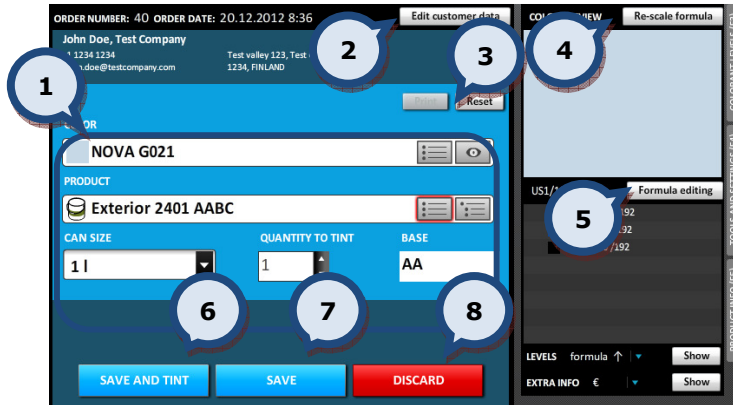
If multiple cans are to be dispensed (based on order), the software will display the following dialogue and message **“Dispensing completed! Insert next can”**.

4. OK: The button to start the dispensing.

5. ABORT: The button to stop the dispensing process.

Note: The order status has a “waiting...” status when the dispensing process has been aborted.

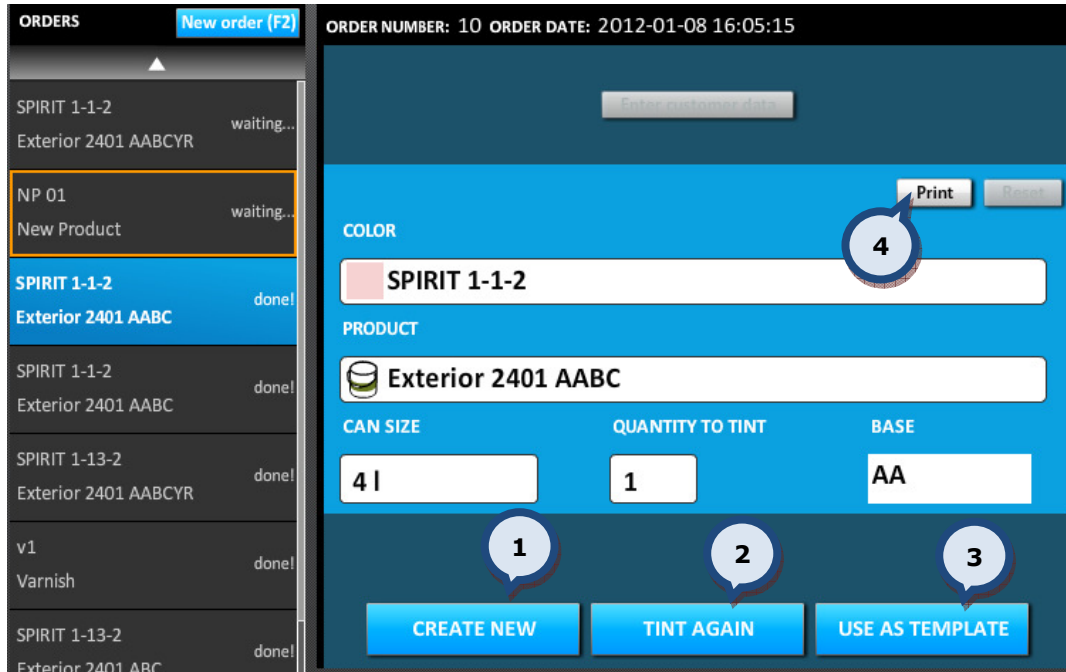
When the **EDIT ORDER** button has been clicked, the following options become available:



- 1. Change items, if needed:** color, product, can size, number of cans.
- 2. Edit customer data:** The button to edit customer data. This option is available only if the customer is already assigned to this order. See further details about this function in section 2.7. If the customer is not already assigned to this order, the Enter customer data button is visible in the middle part of the screen. See further details about this option in **section 2.6**.
- 3. Reset changes:** The button to reset all changes made.
- 4. Rescale formula:** The button to rescale the formula. See further details about this function in **section 2.10**.
- 5. Formula editing:** The button to edit the formula. See further details about this function in **section 2.9**.
- 6. SAVE AND TINT:** The button to save changes and dispense the colorants.
- 7. SAVE:** The button to save changes.
- 8. DISCARD:** The button to ignore any changes made and keep the original order details.

2.4. Order with done! status

When an order has been selected with the **done!** status from the order list, the following options become available:



1.CREATE NEW: The button to clear all selections and create a new order. Proceed as in to 'Create new order'. See more details in **section 2.5**.

2.TINT AGAIN: The button to re-dispense this order. Follow the same procedure as in START DISPENSING on **section 2.3**.

3.USE AS TEMPLATE: The button to use this order as a template when creating a new order. Follow the same procedure as in EDIT ORDER in **section 2.3**.

4.Print: The button to print a label for this order. See **section 4.4** to select a label printer.

2.5. Create a new order

When the **Create new order** button is clicked, the following window appears:

The new order window has the following options:

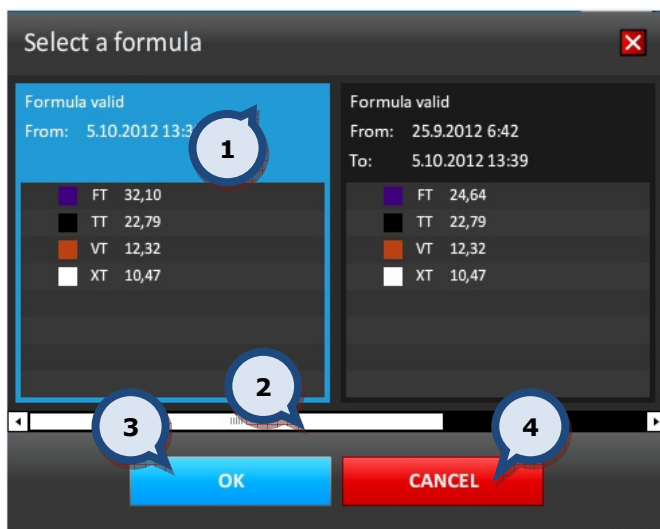
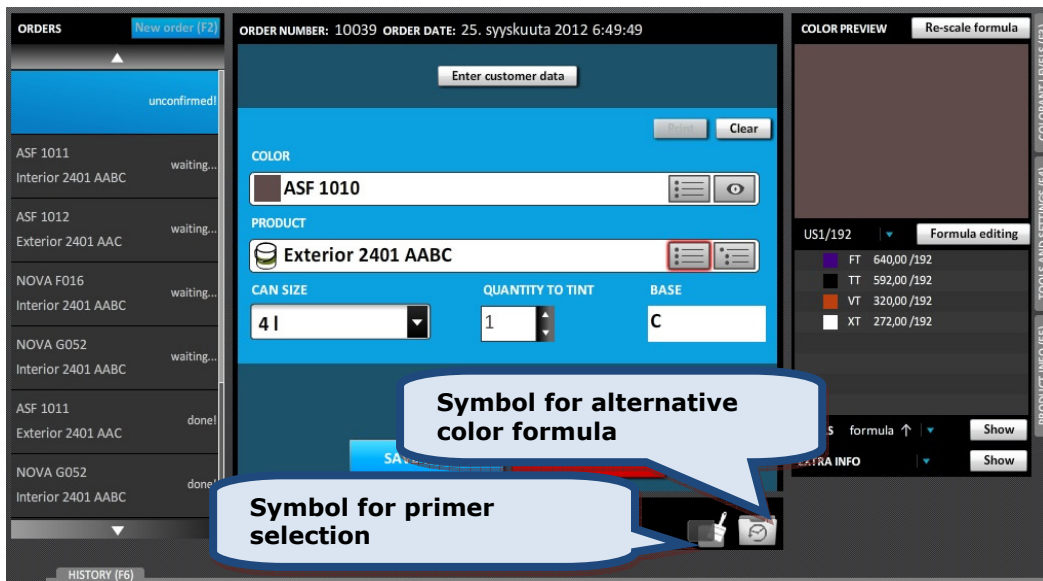
- 1.COLOR:** The color selector field. The place to type in the color code/name.
- 2.COLOR LIST:** The button to open the color selector list. See further details about color search options in **section 2.5.1**.
- 3.CHOOSE OR MEASURE A COLOR (EYE):** The button to open the 'color measurement or choose color from color card' window. See further details about color search options in **section 2.5.1**.
- 4.PRODUCT:** The product selector field. The place to type in the product code/name into the field. See further details about color search options in **section 2.5.2**.
- Note:** It is possible to select first the product before the color. The order of these fields can be changed via the **Program settings section of the Tools and settings > Options** page. See further instructions about this function in **section 5.1**.
- 5.PRODUCT LIST:** The product selector drop down list. See further instructions in **section 2.5.2**.
- 6.PRODUCT TREE:** The product selector drop down list with grouped products. See further instructions in **section 2.5.2**. The product grouping is set within the InnovaTint LAB software.
- 7.CANSIZE:** The Can size selector drop down list. See further details about can size search options in **section 2.5.3**.
- 8.QUANTITY TO TINT:** The number of cans to be tinted.
- 9.BASE:** The base paint code only is displayed.
- 10.DELETE ORDER:** The button to delete the order (opens up a dialogue to confirm the deletion request).
- 11.Clear:** The button to clear all selections made.
- 12.Enter customer data:** The button to create or select a customer. See further details in **section 2.7**.
- 13.New formula:** The button to create a new formula. See further details in **section 2.8**.

When the color, product and can size information (or when new formula) has been entered, the following options become available:



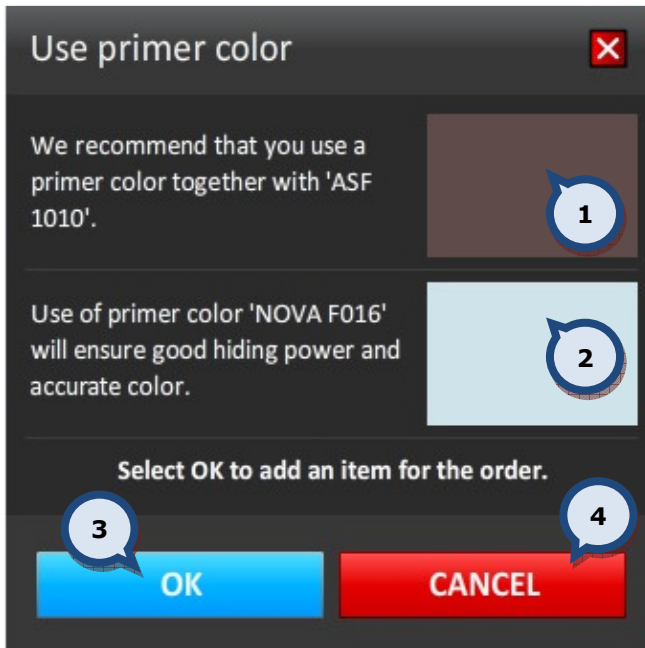
- 1.SAVE AND TINT:** The button to save the order and to dispense colorants.
- 2.SAVE ORDER:** The button to save the order without dispensing the colorants.
- 3.Comment:** The text field to enter comments for the formula. The comment will be added to the customer data, if customer data is activated.
- 4.Re-scale formula:** The button to re-scale a formula. See further details from **section 2.10**.
- 5.Formula editing:** The button to edit a formula. See further details from **section 2.9**.
- 6.Show (LEVELS):** The button to show/hide colorant canister levels information.
- 7.Show (EXTRA INFO):** The button to show/hide EXTRA INFO table.

After selecting the can size, the clock folder symbol may become visible in the notes area, if an alternative color formula is available. Also, the paint brush symbol may be visible when a primer product is needed for the chosen color.



After clicking on the **Clock** symbol the following options become available:

1. Click **on the desired formula**.
 2. Use the **slider** to scroll to view other formula, if multiple versions are available.
 3. **OK:** The button to select the formula and proceed onwards to order creation.
- OR
4. **CANCEL:** The button to use the default formula.



After clicking on the **Paint brush** symbol the following window appears:

1.The visual interpretation of the selected color.

2.The visual interpretation of the suggested primer color.

3.OK: The button to select the suggested primer color and proceed with the order creation.

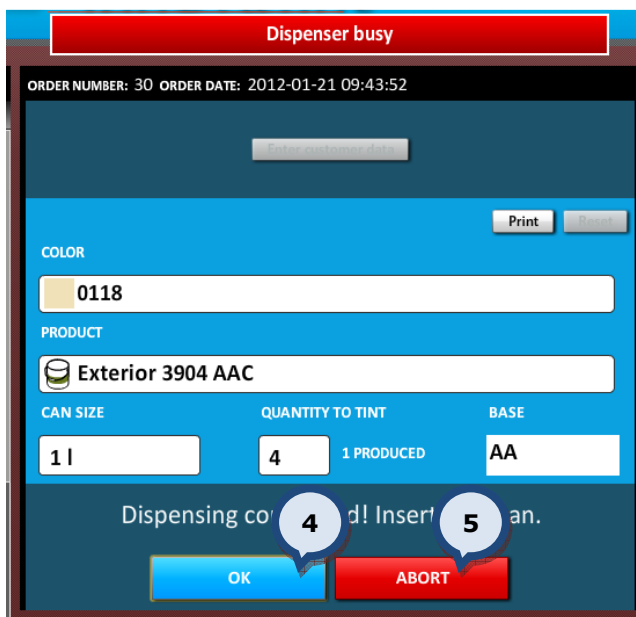
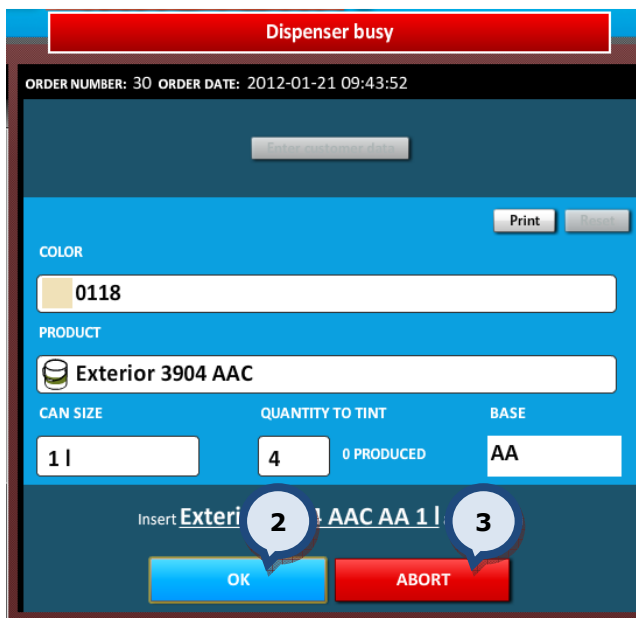
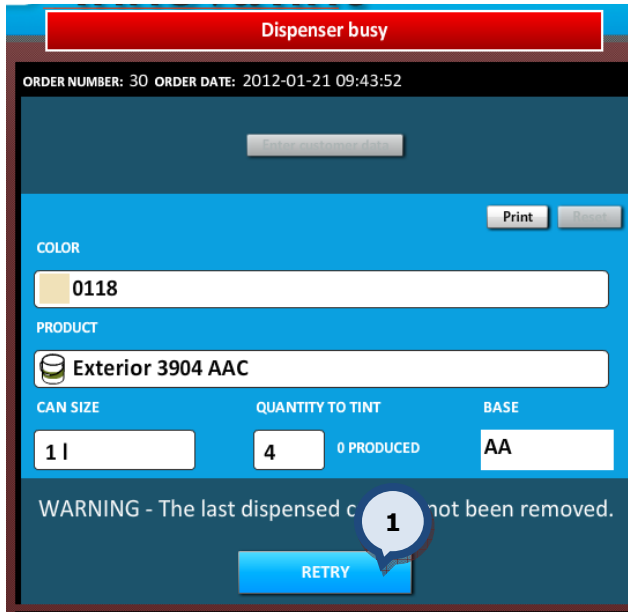
OR

4.CANCEL: The button to return to previous window without selecting a primer.

Note: The automatic primer suggestion is set up in the **Program settings section of the Tools and Settings > Options > MORE...** page. See further instructions in **section 5.1**.

Note: When the primer suggestion has been accepted and the top coat order created, the program will create a new order for the primer and it will have the waiting... status in the dispensing queue. The can size is determined by the top coat can size.

When the **SAVE AND TINT** button has been clicked, the following options become available:



The following warning is displayed:
WARNING – The last dispensed can has not been removed if the “If Enable check of can change” is selected (Tools and settings > Dispenser information and options > Dispenser general information section), and the paint can has not been removed from the dispensing machine after the previous dispensing.

1. RETRY: The button to proceed with the dispensing process. (this will ignore the can change check warning)

2. OK: The button to start dispensing.

3. ABORT: The button to stop the dispensing process.

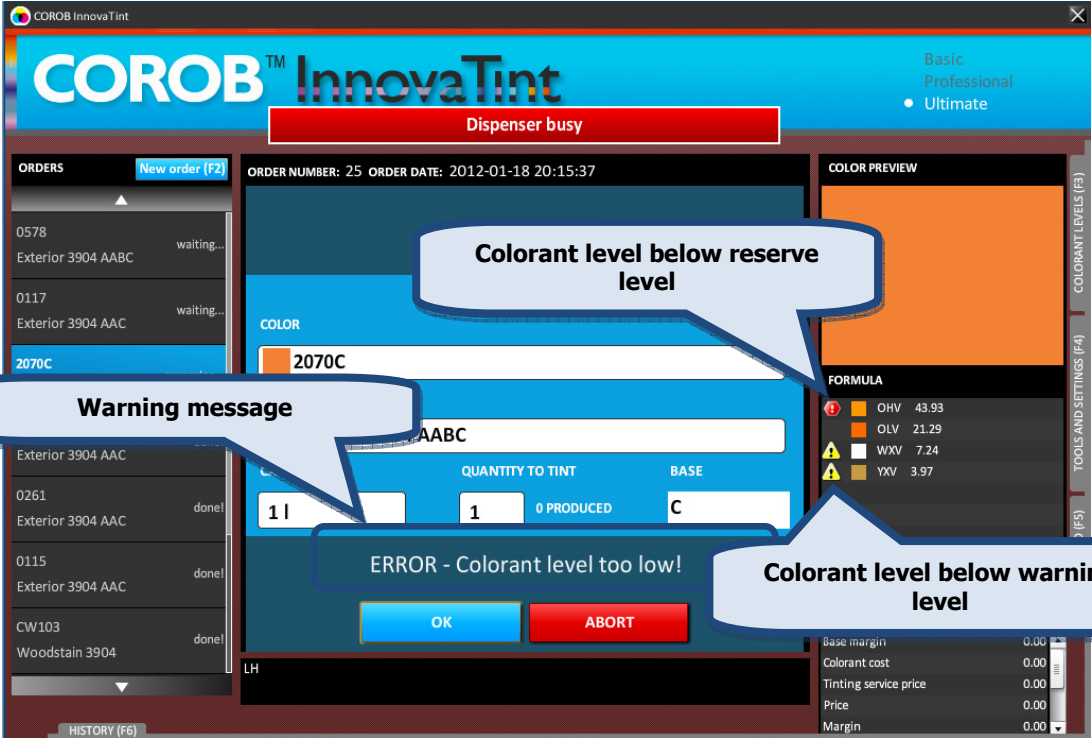
If multiple cans are to be dispensed (based on the order), the software will display the following dialogue and message “**Dispensing completed! Insert next can**”.

4. OK: The button to start dispensing.

5. ABORT: The button to stop the dispensing process.

Note: An attempt to dispense a formula with a colorant level lower than the reserve level will result in the following warning message: "ERROR - Colorant level too low!". The dispensing process will be aborted.

Note: Reserve  and warning level  symbols are also displayed in the FORMULA table.



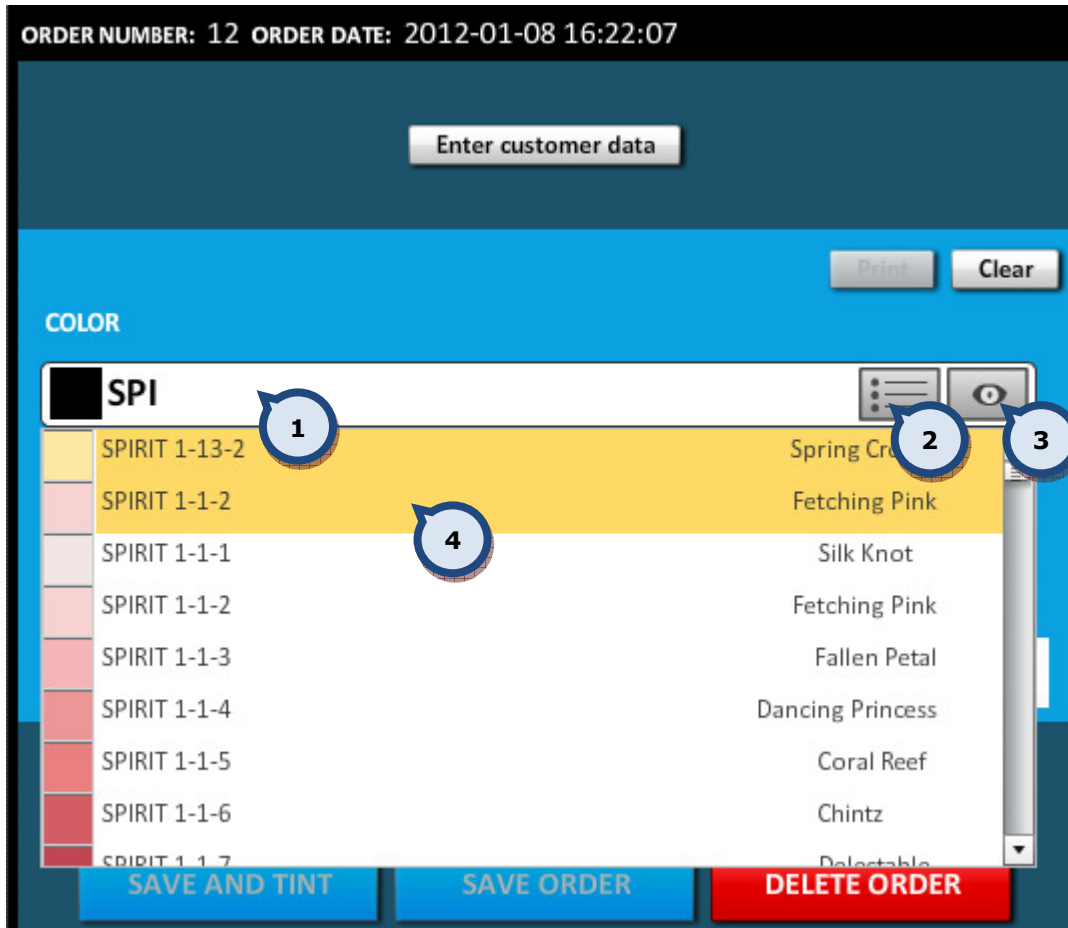
The screenshot displays the COROB InnovaTint software interface. At the top, a red banner reads "Dispenser busy". The main area shows an order form for color 2070C. A central error message states "ERROR - Colorant level too low!". A "Warning message" callout points to the "FORMULA" table, which includes a red warning icon next to the OHV row. Another callout points to the "FORMULA" table, indicating a "Colorant level below warning level".

FORMULA	Value
OHV	43.93
OLV	21.29
WXV	7.24
YXV	3.97

Base margin	Value
Base margin	0.00
Colorant cost	0.00
Tinting service price	0.00
Price	0.00
Margin	0.00

2.5.1. Color search

In the New order window, the following options are available when searching for a color:



1.COLOR: Color name or color code or part of it can be typed into this field. Possible choices are offered from a drop down list showing the color name and a preview. Matching choices are sorted alphabetically by color code.

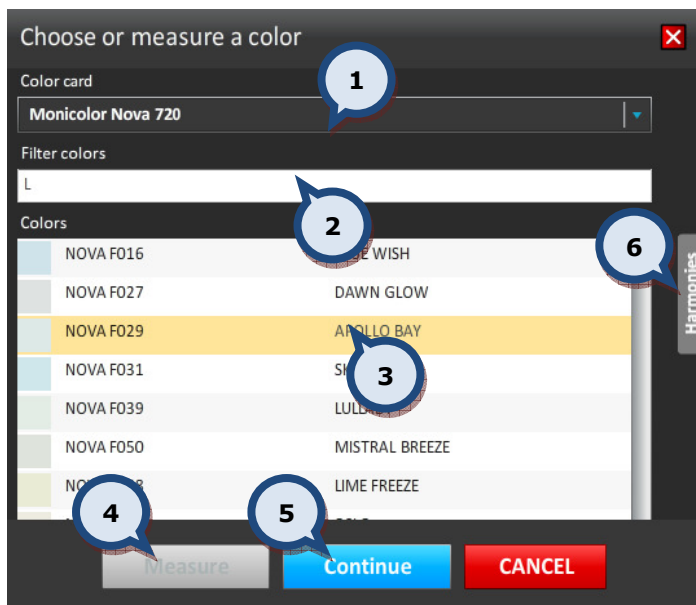
2.Color list selector button.

3.Choose or measure a color (color eye). See further details about this option on the next page.

4.The most popular colors are highlighted, if this option has been enabled via the **Program settings section of the Tools and settings > Options** page. See further instructions about this function in **section 5.1**.



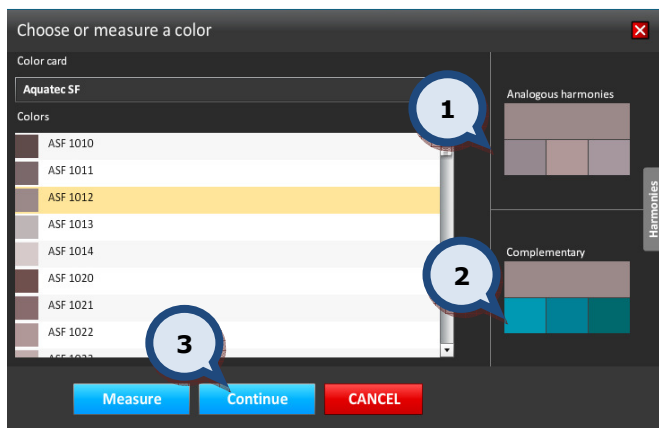
When the **Choose or measure a color** (color eye): button has been clicked, the following options become available:



- 1. Color card:** The drop down list to select a color card.
- 2. Filter colors:** The field to narrow down options by applying a filter.
- 2. Colors list:** The list to select a color.
- 3. Measure:** The button to measure a color with the spectrophotometer. See further details about this function on the next page.
- 4. Continue:** The button to proceed after a color selection has been made.
- 5. Harmonies:** See further instructions about this item below.

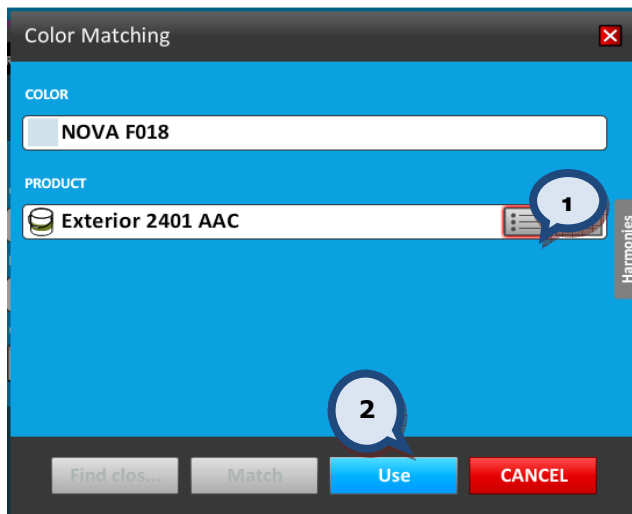
Note: The harmonies button is only visible when the reflectance data is available for the selected color. The behavior of Harmonies function is controlled in **Program settings section of the Tools and settings > Color matching** page. See further instructions about this function in **section 5.2.**

When the **Harmonies** button has been clicked after selecting a color from the color card, the following options become available:



- 1. Analogous harmonies:** Color preview of analogous harmony colors are displayed. Select a color by clicking on the color preview.
- 2. Complementary:** Color preview of complementary colors are displayed. Select a color by clicking on the color preview.
- 3. Continue:** The button to proceed after making a choice.

When the **Continue** button has been clicked after selecting a color, the following window appears:

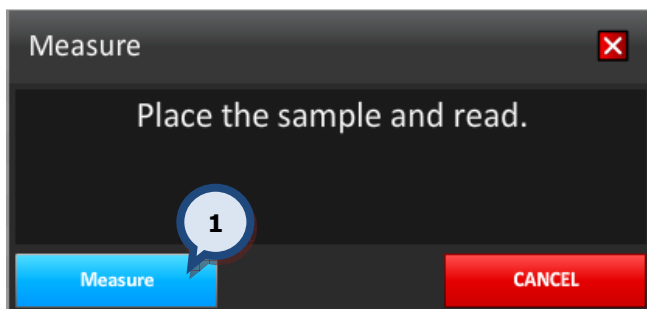


1.PRODUCT: The product field. Type in the product name, or use the product list or product tree button to search and select a product.

2.Use: The button to proceed after the product has been selected.

Note: After this the can size has to be selected before an order can proceed.

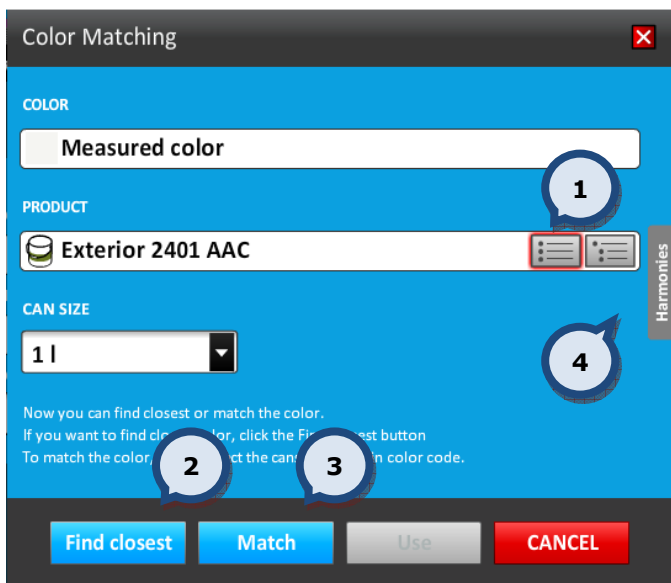
When the **Measure** button has been clicked on the **Choose or measure a color** page, the following window appears:



1.Measure: The button to measure a sample with a spectrophotometer.

Note: If the spectrophotometer has not been calibrated, the program will first request this to be carried out using a black trap and a white tile. See further details about this function on the next page.

When the color has been **measured** and the product and can size selected, the following options become available:



When a color has been measured:

1.PRODUCT: The product field. Type in the product name, or use the product list or product tree button to search and select a product.

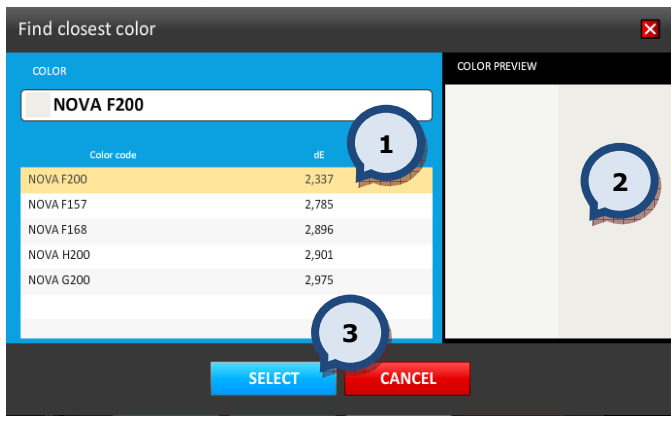
Note: Product list products are commented, if they can't be chosen for matching.

2.Find closest: The button to find the closest matching color from the color cards.

3.Match: The button to make a color matching with the measured color as the standard.

4.HARMONIES: The button to select the closest harmony color.

When the **Find closest** button has been clicked, the following window appears:

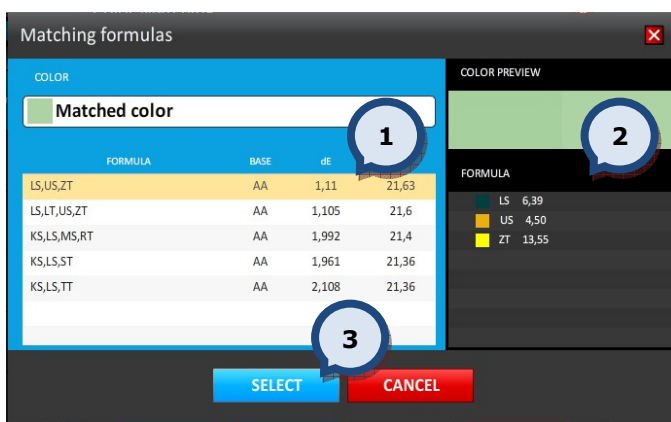


1.The closest colors are listed in the table with the color difference value.

2.COLOR PREVIEW: The visual color difference is displayed on the screen. Standard on the left, and the selected color on the right.

3.SELECT: The button to select a highlighted color.

When the **Match** button has been clicked, the following window appears:



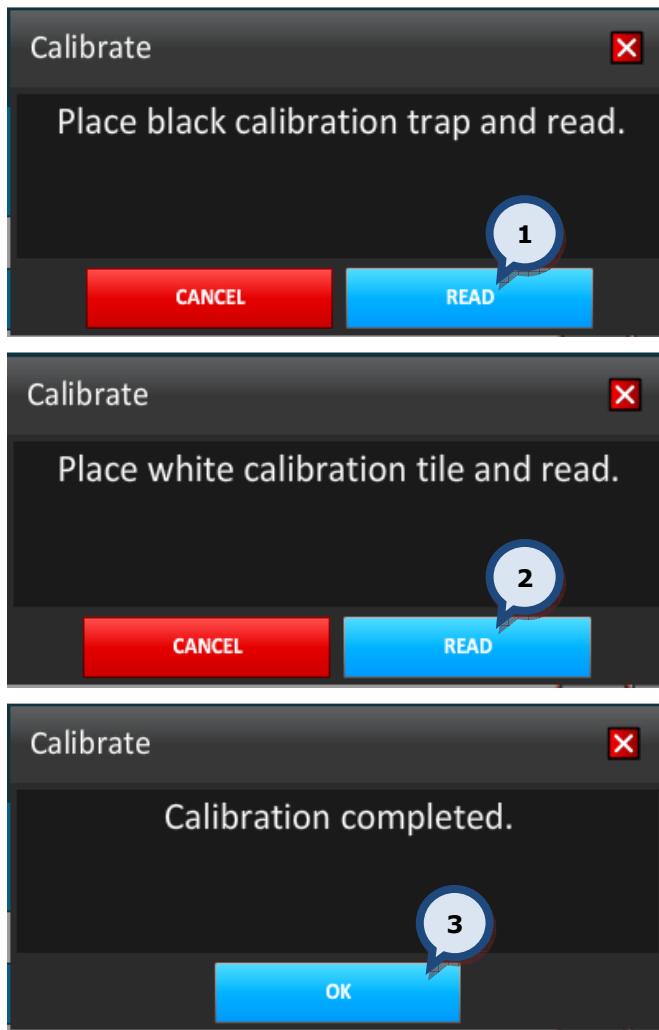
1.The closest colors are listed in the table with the color difference and cost values. Select a color formula by highlighting the row with the right mouse button.

2.COLOR PREVIEW/FORMULA: The color preview and the formula are displayed on the screen.

3.SELECT: The button to select a highlighted color.

Note: Basic settings of “find closest color” and “color matching” can be found in **Program settings section of the Tools and settings > Color matching** page. See further instructions about this function in **section 5.2**.

When the **Measure** button has been clicked on the **Choose or measure a color** page but the spectrophotometer has not been calibrated, the following calibration process begins automatically.



1.READ: The button to make the measurement of the black calibration trap.

2.READ: The button to make the measurement of the white calibration tile.

3.OK: The button to return to the sample measurement process after the calibration has finished.

Note: The spectrophotometer has to be installed before starting the calibration process. The spectrophotometer can be installed from the **Spectrophotometer section of the Tools and settings > External devices** page. See further information about the spectrophotometer installation in **section 5.4**.

When the **Harmonies** button has been clicked after measuring a color, the following options become available:



When Harmonies button is clicked after measuring a color:

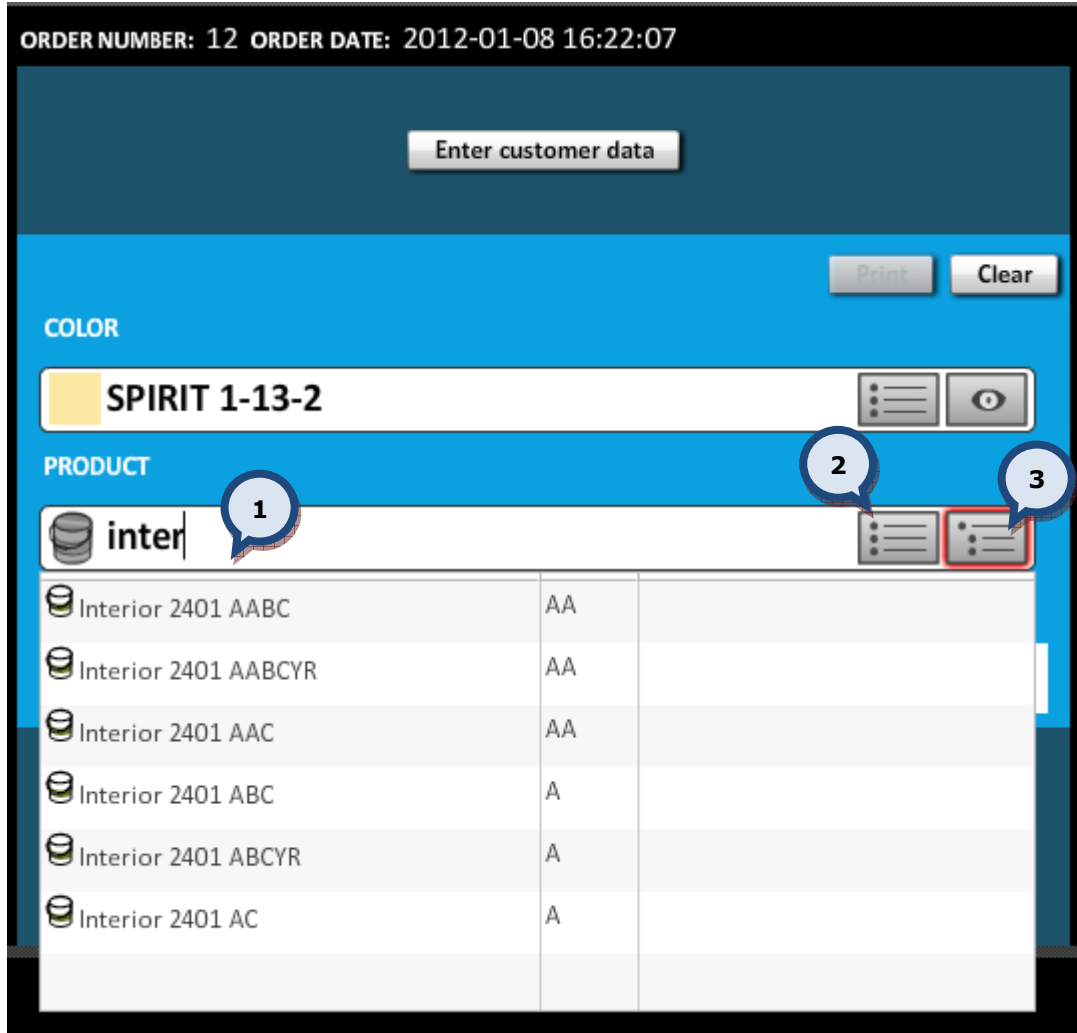
1. Analogous harmonies: The Color preview of analogous harmony colors are displayed as squares. Select a color by clicking on the color preview square.

2. Complementary: The color preview of complementary colors are displayed as squares. Select a color by clicking on the color preview square.

3. Use: The button to proceed after the color has been selected.

2.5.2. Product search

In the New order window, the following options available when searching for a product:



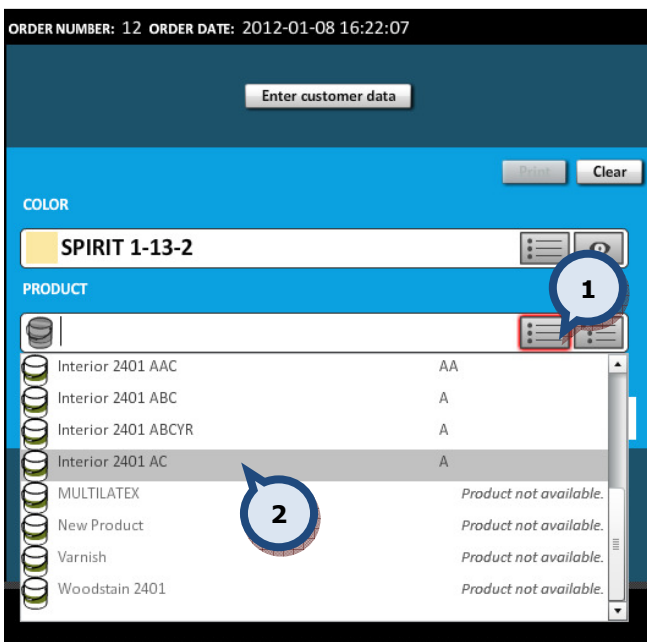
1.PRODUCT: Product name or product code or part of it can be typed into this field. Possible choices are offered in a drop down list, showing the product name and a preview.

note: When Product tree -mode selected, it's possible to search also by group name.

2.Product list button. See further details about this function on the next page.

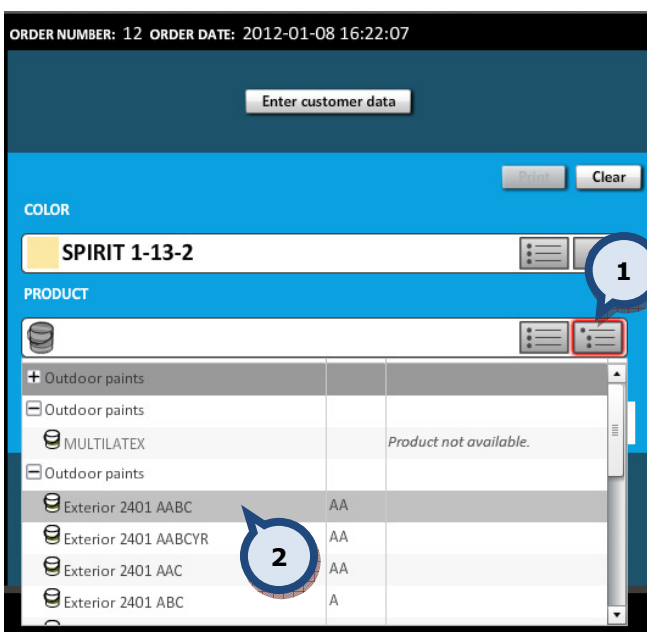
3.Product tree button. See further details about this function on the next page.

When the **product list** button has been clicked:



1. The **product list** button to display all products becomes available in alphabetical order.
2. Select a product from the dropdown list

When **the product tree** button has been clicked:



1. The **product tree** button to display all of the products available. Similar products are grouped to help find a suitable product.
2. Select a product from the dropdown list

Note: The product grouping can be set up in the **InnovaTint LAB** software.

A non-compatible product choice is still possible (unless disabled, see below), but choosing one of those will undo the color selection. The color list is now filtered based on the chosen product.

Note: Incompatible color/product combinations can be disabled from the **Program settings** section of the **Tools and settings > Options** page. See further instructions about this function in **section 5.1**.

2.5.3. Can size search

In the New order window, the following options are available when selecting a can size:

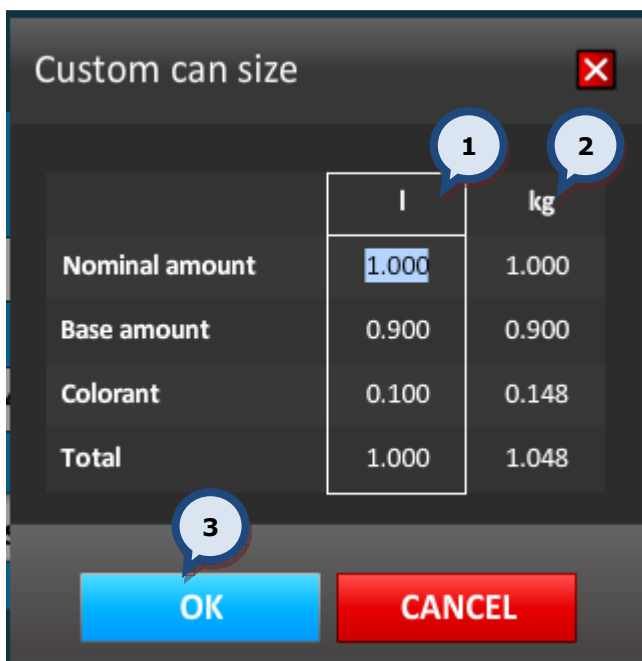


1.CANSIZE: The drop down list to select a standard can size.

OR

2.Custom can size: Option to use another can size. See further instructions below.

When the **Custom can size** text has been selected from the CAN SIZE drop down list, the following options become available:



The desired amount can be typed. After typing the amount into the field, other items are scaled accordingly.

Note. It is possible to type values into either the **volume (1)** column or into the **weight (2)** column.

3.OK: The button to accept selected amounts, and return to the previous page.

After the can size selection has been made, a colorant level check is done to evaluate the possibility to dispense the selected formula.

It is possible to set a default can size in the **General settings section of the Tools and settings > Options** page. See further instructions about this function in **section 5.1**.

Can sizes are created with the **InnovaTint LAB** software, however, shop owner may limit the available selection in the **Tools and settings > Prices and Stock > Stock** page. See further instructions about this function in **section 5.5..**

2.6. Enter customer data

In the Create new order or Edit order view, it is possible to include customer information with the order.

The screenshot shows a software interface for entering order details. At the top, it displays 'ORDER NUMBER: 16' and 'ORDER DATE: 2011-10-05 15:04:06'. Below this is a dark blue header bar containing a button labeled 'Enter customer data', which is circled in red with a white callout bubble containing the number '1'. The main content area has a light blue background and contains several input fields: 'COLOR' with a dropdown menu showing 'NOVA F003'; 'PRODUCT' with a dropdown menu showing 'Exterior ABC'; 'CANSIZE' with a dropdown menu showing 'Select a cansize'; 'NUMBER OF CANS' with a numeric spinner set to '1'; and 'BASE' with a dropdown menu showing 'A'. There are also 'Save' and 'Reset' buttons in the top right of the main area. At the bottom, there are three buttons: 'SAVE AND TINT' (blue), 'SAVE' (blue), and 'DISCARD' (red).

1. Enter customer data: The button to save customer information into the order.

When creating a new order or editing an existing one, this step can be done either before or after the product/color/etc has been selected.

When the **Enter customer data** button has been clicked, the following window appears:



1.Customer name: The text field to enter a customer name. When the cursor is placed in the field, and the Enter button is clicked on the keyboard, the list of customers is opened up. Narrow down the search result by typing a part of the name before pressing the Enter button again. The 'new customer' text is placed on the top of the list. It is possible to create a new user by clicking on this text.

2.Details: Optional text fields for further customer details, like: address, and email.

3.Receive marketing offers? When the check box is enabled it is then possible (after agreement) to send marketing material to this customer.

4.Notes: The free text area for additional notes.

5.Clear: The button to clear all selections made in the customer data page.

6.OK: The button to save all data and return to the order view.

7.CANCEL: The button to abort the customer data process and return to the order view.

Note: It is possible to search for existing customers by using the customer's name, the customer's company, the phone number, or by their email address. Type in either the full name or number, or part of it to find the list that matches the search criteria.

Name	Company	Phone	Email
New customer			
Aadolf Aamu	aerandir	19164	Aadolf.Aamu@aerandir
Aamu Aarre	almandil	19165	Aamu.Aarre@almandil
Aarno Aatu	anduin	19171	Aarno.Aatu@anduin.f
Aarto Aappo	aldaron	19175	Aarto.Aappo@aldaron

matching customer details are shown. Select existing customer or "New customer".

Note: The customer contact details will be displayed in the Orders main page when the customer has been assigned to the order.

Note: The Country is preselected if the site information is completed in the **Site information section of the Tools and settings > Color matching and replication > MORE...** page.

2.7. Edit customer data

In the Edit order view, it is possible to edit also the customer information.

ORDER NUMBER: 10035 ORDER DATE: 6. syyskuuta 2012 9:14:43 Edit customer data
Anna Aurinkoinen

COLOR
NOVA G021

PRODUCT
Exterior 2401 AAC

CAN SIZE 1 l QUANTITY TO TINT 1 BASE AA

SAVE AND TINT SAVE DISCARD

1. Edit customer data: The button to edit customer information.

When creating a new order or editing an existing one, this step can be done either before or after the product/color/etc has been selected.

When the **Edit customer data** button has been clicked, the following window appears:

The screenshot shows a 'Customer data' dialog box with the following fields and callouts:

- 1:** Customer name / project number field (containing 'Aamu Aarre')
- 2:** A bracket on the left side of the form, encompassing the company name, phone number, email, and address fields.
- 3:** A large free text area for notes.
- 4:** A 'Clear' button in the top right corner.
- 5:** A 'Notes' label above the text area.
- 6:** An 'OK' button at the bottom left.
- 7:** A 'CANCEL' button at the bottom right.

Other visible fields include: Company name (almandil), Phone number (19165), Email (Aamu.Aarre@almandil.cs), Address (Aarneamrod 2), Address 2nd line (Aarneamrod 2), ZIP code (8002), and a 'Receive marketing offers?' checkbox.

1.Customer name: The text field to enter a customer name. When the cursor is placed in the field, and the Enter button is clicked on the keyboard, the list of customers is opened up. Narrow down the search result by typing a part of the name before pressing the Enter button. The 'new customer' text is placed on the top of the list. It is possible to create a new user by clicking on this text.

2.Details: Optional text fields for further customer details, like: address, and email.

3.Receive marketing offers? When the check box is enabled it is then possible (agreement) to send marketing material to this customer.

4.Notes: The free text area for additional notes.

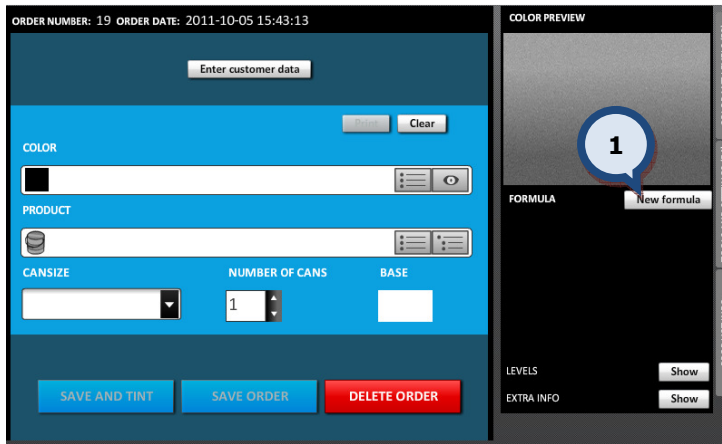
5.Clear: The button to clear all selections made in the customer data page.

6.OK: The button to save all data and return to the order view.

7.CANCEL: The button to abort the customer data process and return to the order view.

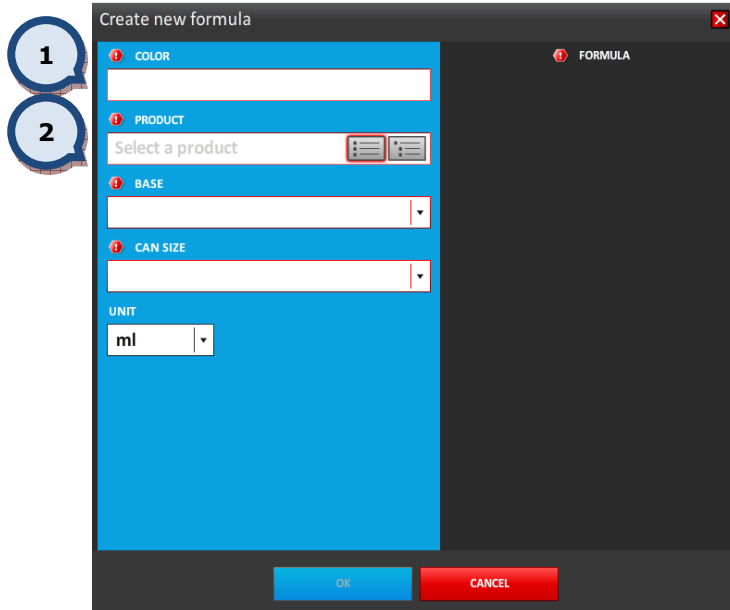
2.8. Create a new color formula

It is possible to manually create a new color formula when creating a new order. This new formula is saved only into the local database and can only be viewed and re-tinted afterwards through the History function, or by selecting an order with this formula from the orders list.



1. Click on the **New formula** button

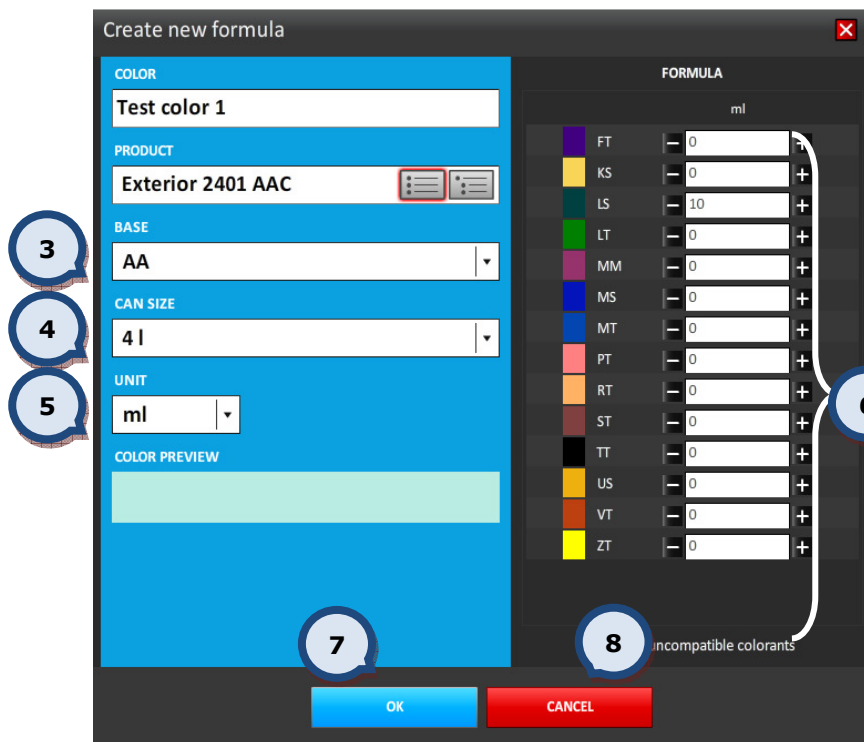
When the new order has been created and the **New formula** button has been clicked, the following items need to be filled in before proceeding further:



1. **COLOR:** Name or Code for the formula

2. **PRODUCT:** Product selector

Then other items needs to be filled in:



3.BASE: Base selector

4.CANSIZE: Can size selector

5.UNIT: formula unit selector

6.Enter the **Colorant amounts** (or use – and + buttons, or type into the text box)

7.OK: The button to save the formula.

8.CANCEL: The button to exit this window without saving a formula.

Note: If the name or the code of an existing color is used in the new (or modified) formula, the original color formula is not overwritten.

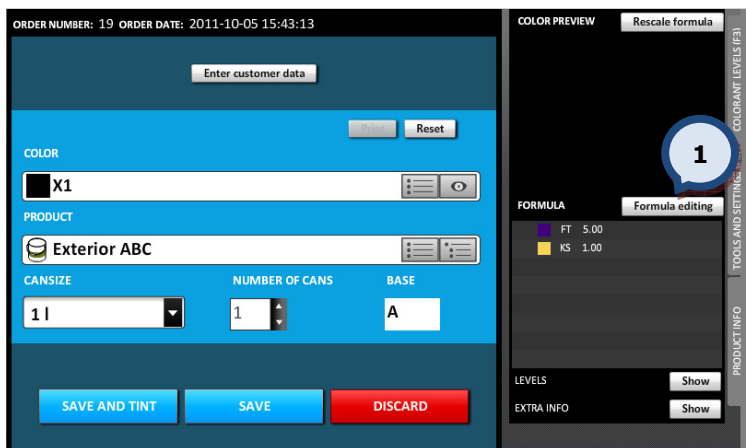
Note: If the option "Prevent color code copying from custom formulas" is selected in the **Program settings section of the Tools and settings > Options > MORE...** page, the color name or color code needs to be unique.

2.9. Edit a formula

It is possible to edit a formula within an order that has the waiting... status.

Note: It is also possible to edit a formula at any time that the order is still in the unconfirmed! status

When the order has been selected from the orders list, and the **EDIT ORDER** button has been clicked, the **Formula editing** button becomes visible.



1. Click on the **Formula editing** button.

When the **Formula editing** button has been clicked, the following window appears:



1. Change: **COLOR** name, **PRODUCT**, **BASE** paint, **CAN SIZE**, **UNIT** (if needed)
2. Edit the formula by using **-** and **+** buttons or by typing the number into the box
3. **Show incompatible colorants**: When the check box has not been enabled, the colorants which are not compatible with the product selected are hidden. The rules for compatible colorants are set up in **InnovaTint LAB** program.
- 4 **OK**: The button to save changes.
5. **CANCEL**: The button to exit this window without saving a formula.
6. **COLOR PREVIEW**: The window to display color before and after the edit. (Does not represent real color difference, just an estimation)

Note: If the name or the code of the existing color is used in the new (or modified) formula, the original color formula is not overwritten. The new color formula can then only be viewed through the History function.

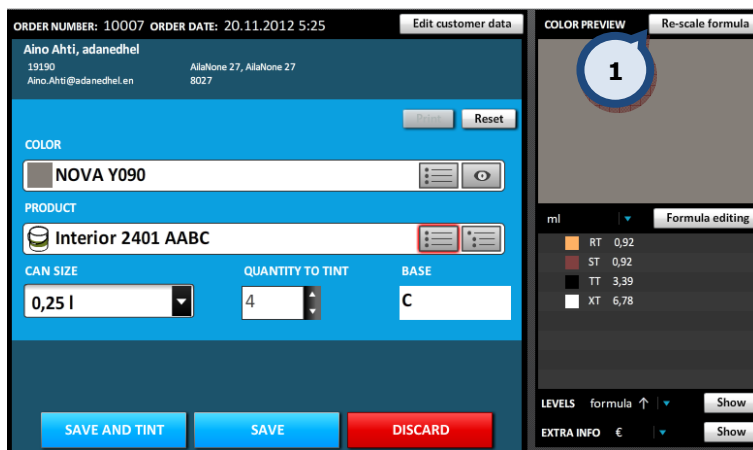
Note: When a formula has been edited the formula name is automatically changed to correspond to the changes made in the formula.

2.10. Rescale the formula

It is possible to rescale a formula in a saved order with the waiting... status.

Note: It is also possible to re-scale a formula at any time that the order is still in the unconfirmed! status

When the order has been selected from the orders list, and the **EDIT ORDER** button has been clicked, the Rescale formula button becomes visible.



1. Click on the **Rescale formula** button.

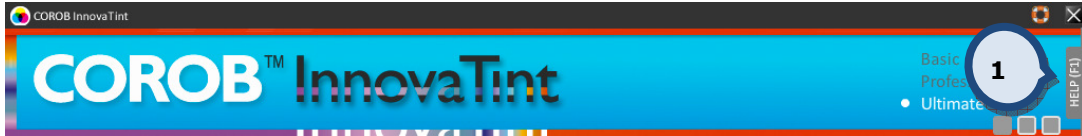
When the **Rescale formula** button has been clicked, the following options become available:



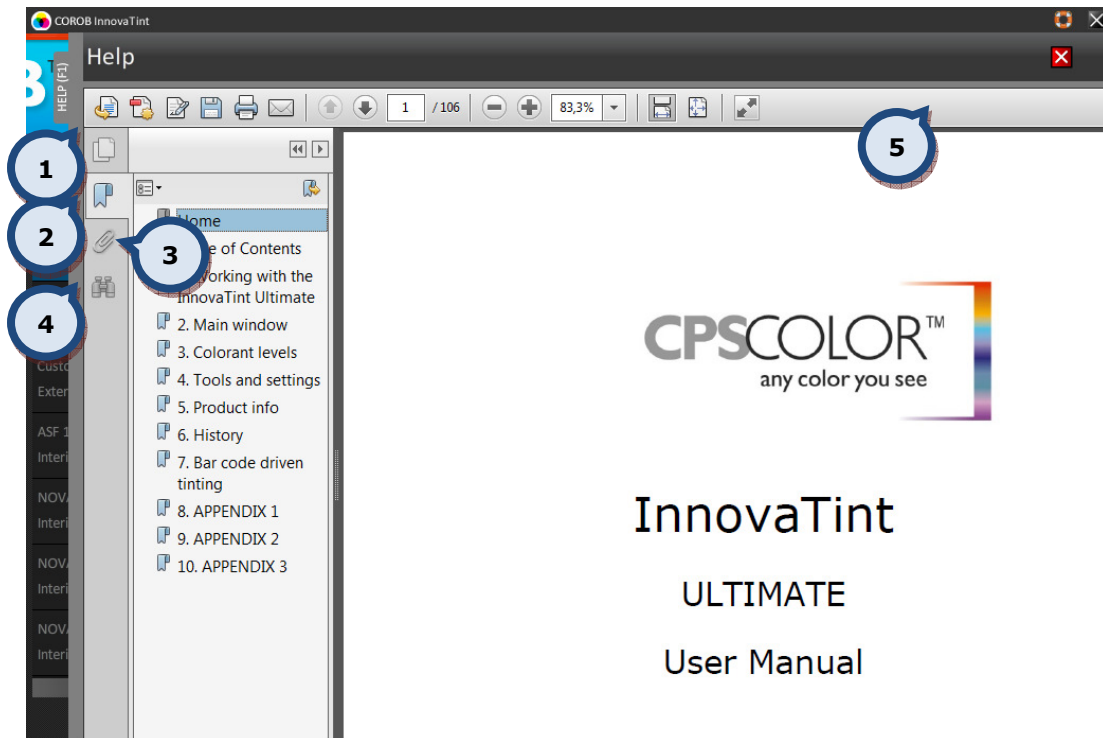
- 1. **Slider** to rescale the formula from light to dark
- 2. Scaling % can be seen within the text field
- 3. Scaling % can be seen within the color name field
- 4. **SAVE AND TINT**: save the re-scaled formula and tint it immediately
- 5. **SAVE**: save the re-scaled formula and place it back into the order list
- 6. **DISCARD**: use the original order
- 7. **Reset**: use the original order

3. Help

3.1. User manual

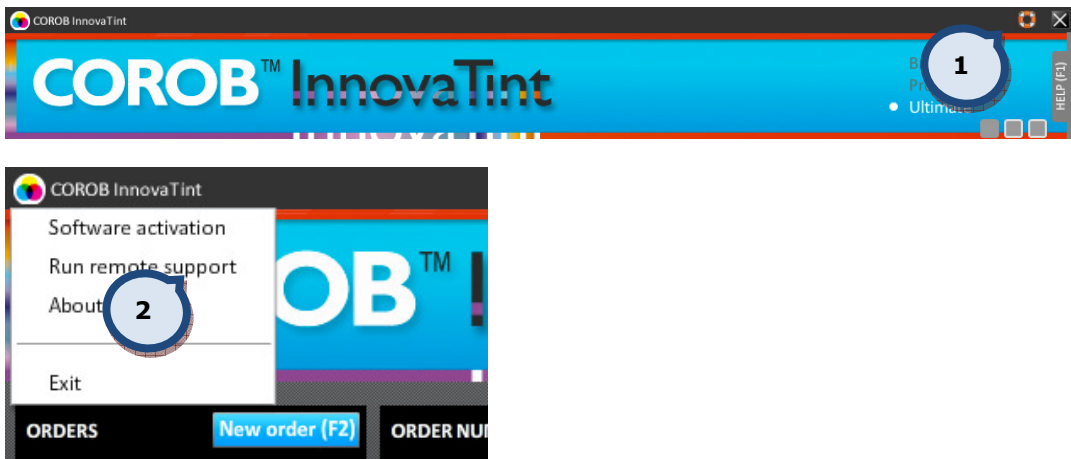


Help file can be accessed by clicking the HELP-tab (1) or pressing F1-button, following window will appear.



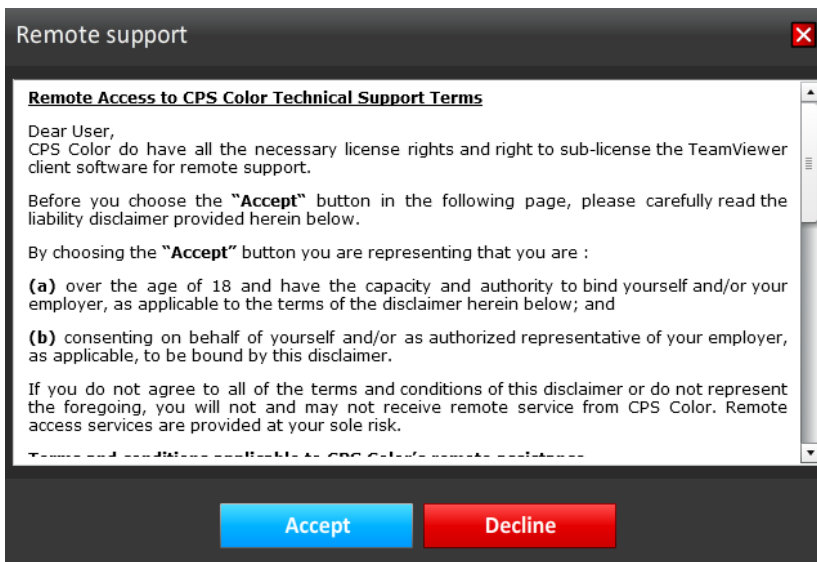
- 1. Miniature icon to display page content on a small preview page
- 2. Bookmark icon allows quick access to selected section
- 3. Appendix icon to display possible additional appendixes
- 4. Search icon to search a word or words from the manual
- 5. Toolbar for zooming in/out, how the page is displayed. Print content out, or quick access to selected page.

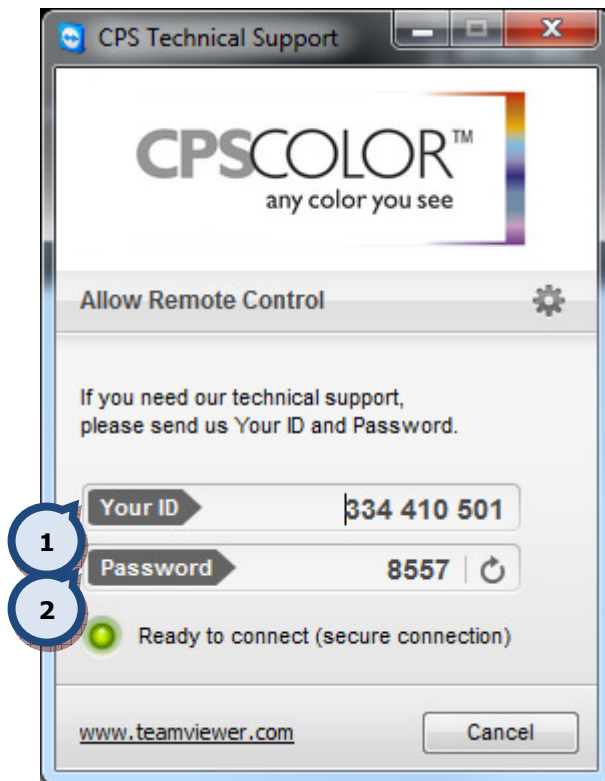
3.2. Remote connection



Remote connection can be established by clicking “help”-icon (1) or alternatively from the upper left hand side menu (2). Following window will appear.

Note: Remote connection is optional during installation and requires Internet connection to work. If not installed, these controls are hidden.





1. ID number of your PC
2. Password for secure connection

When the Technical support makes the connection to the PC, it can have full control of it. It is possible to chat with the support, follow the actions they make, exchange files, all needed to fix the problem.

4. Colorant levels

4.1. Levels (colorant level indicator)

In the lower section on the right hand side of the screen the colorant level indicators are shown. In this view, the five canisters with the lowest colorant amounts are shown.

It is possible to set this information to be visible or hidden by clicking the **Show** or the **Hide** buttons.



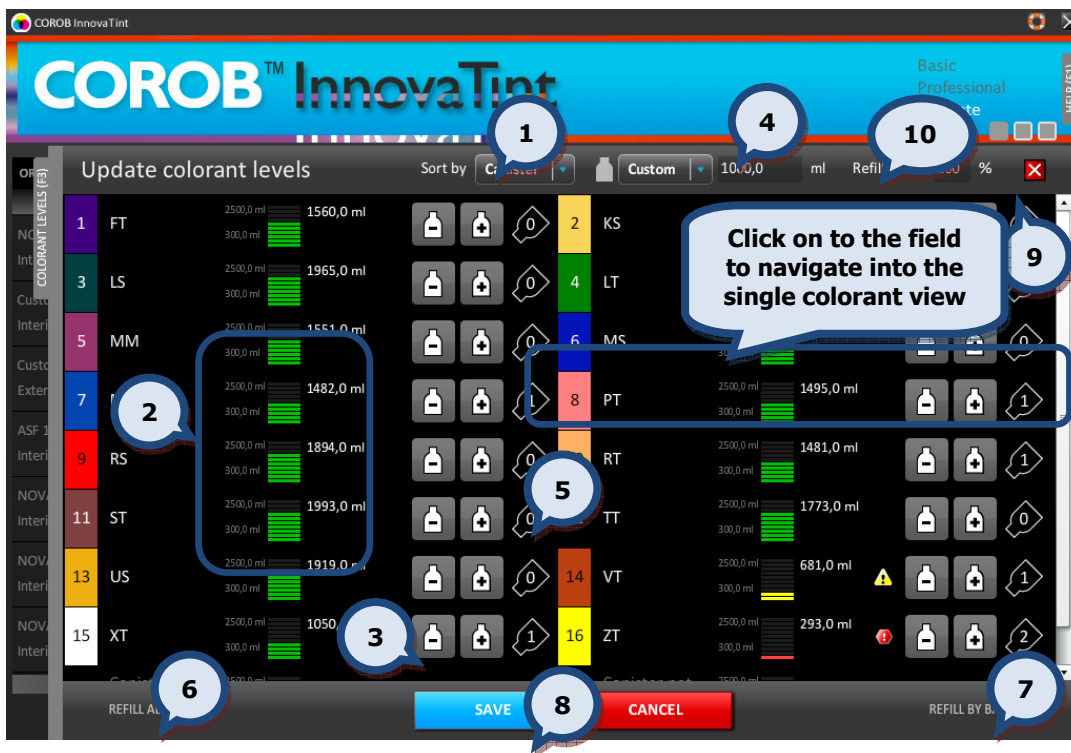
The colorant level list can be sorted into ascending or descending order based on either the colorant existence in the formula or by the canister order in the tinting machine.

4.2. Update colorant levels (all colorants view)

Use the **COLORANT LEVELS > Update colorant levels** tab page to get an overview of the colorant levels in the tinting machine canisters, as well as to see the colorant level warning symbols. From this page it is also possible to update the colorant levels for one or all of the canister at the same time.

Access is available by clicking on the **COLORANT LEVELS** text on the right hand side of the screen, or by clicking **F3** button on the keyboard (see the picture on previous page).

On this page the following items are displayed:



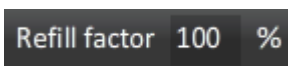
1. By selecting the sorting method from the drop down list, it is possible to sort the order of the colorants by either the canister number or by the filling level.



2. The filling levels are illustrated with green bars. 10 green bars meaning a **full** canister.

When the filling level is lower than the **warning level**, the bar color is changed to yellow and the yellow warning symbol is shown.

When the filling level on the colorant canister is below the **reserve level**, the red alert symbol is shown.



3. To increase (or decrease) the filling levels (with full colorant cans) use the **(+)** and **(-)** symbols.

4. The size (volume) of the colorant can used is defined on the upper part of the screen. Select a custom can size from the drop down list (only valid if custom can sizes for the colorants are set in the **InnovaTint LAB**), or type into the field the volume of the can.

5. The number of (full) colorant cans needed to fill the canister. The colorant can size is defined in item **4**.

6. Use **REFILL ALL** button to refill all of the colorant canisters at the same time.

7. Click on the **REFILL BY BARCODE** button to refill the canisters by using the bar codes to identify the colorant can and the canister.

Note: The Bar code actions check box has to be enabled in the Bar code section (Tools and options > External devices page).

8. Click on the **SAVE** button to save changes.

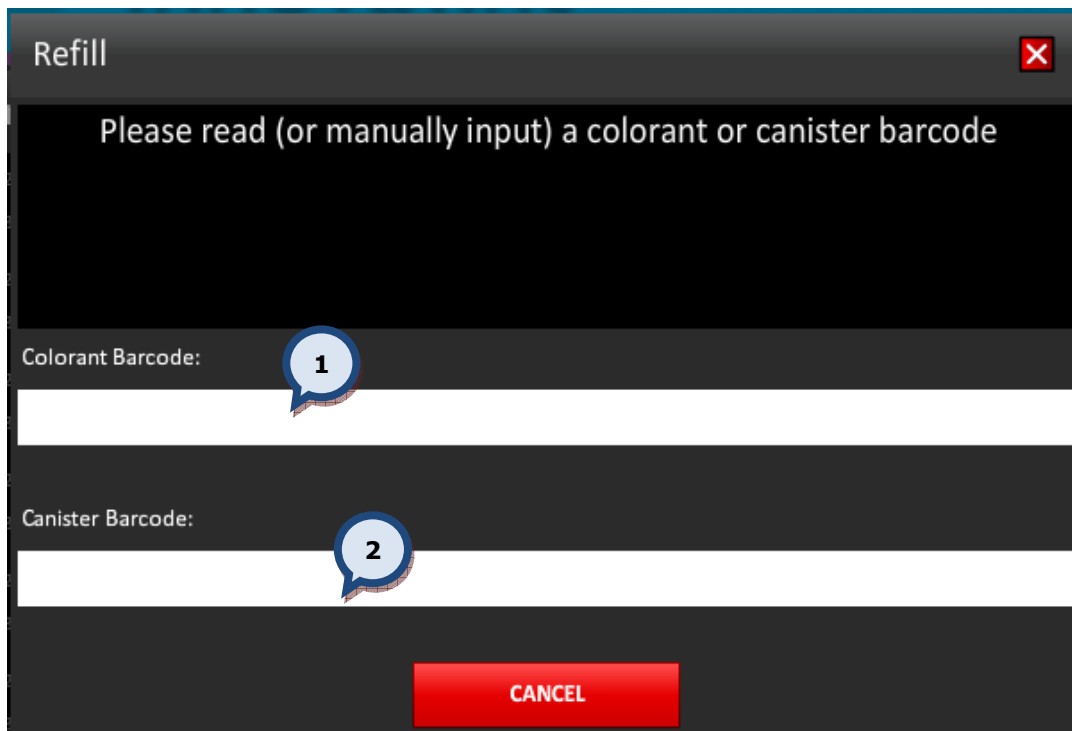
9. To close the Colorant levels lab page, click on the **X**-symbol.

10. To set the factor for refilling success rate.

Note: Increasing or decreasing colorant levels or using the refill all button does not actually change any physical colorant amounts in the tinting machine. These are only indicators that can be used to view material usage, and to provide warning messages. The canisters in the tinting machines have to be filled manually before updating this information into the software.

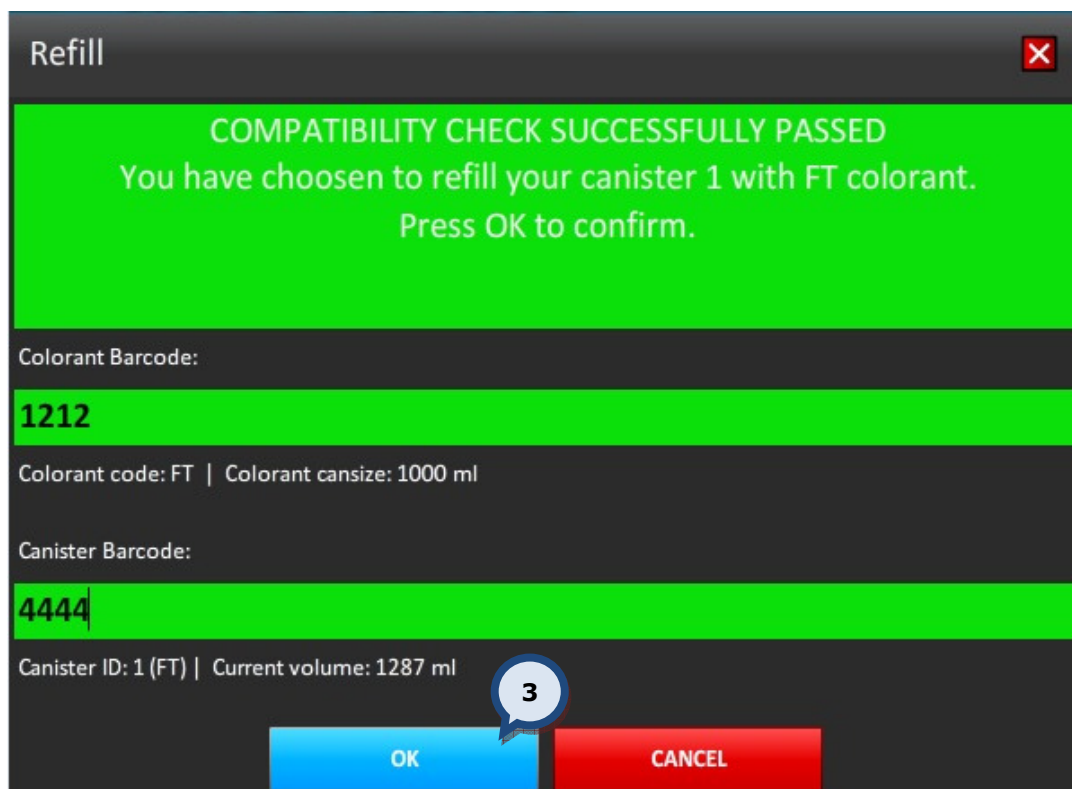
To get a more detailed over view of the colorant levels of a single colorant, click on any part of the colorant field on the Update Colorant Levels tab page.

When the **REFILL BY BARCODE** button is clicked, the following window opens up:



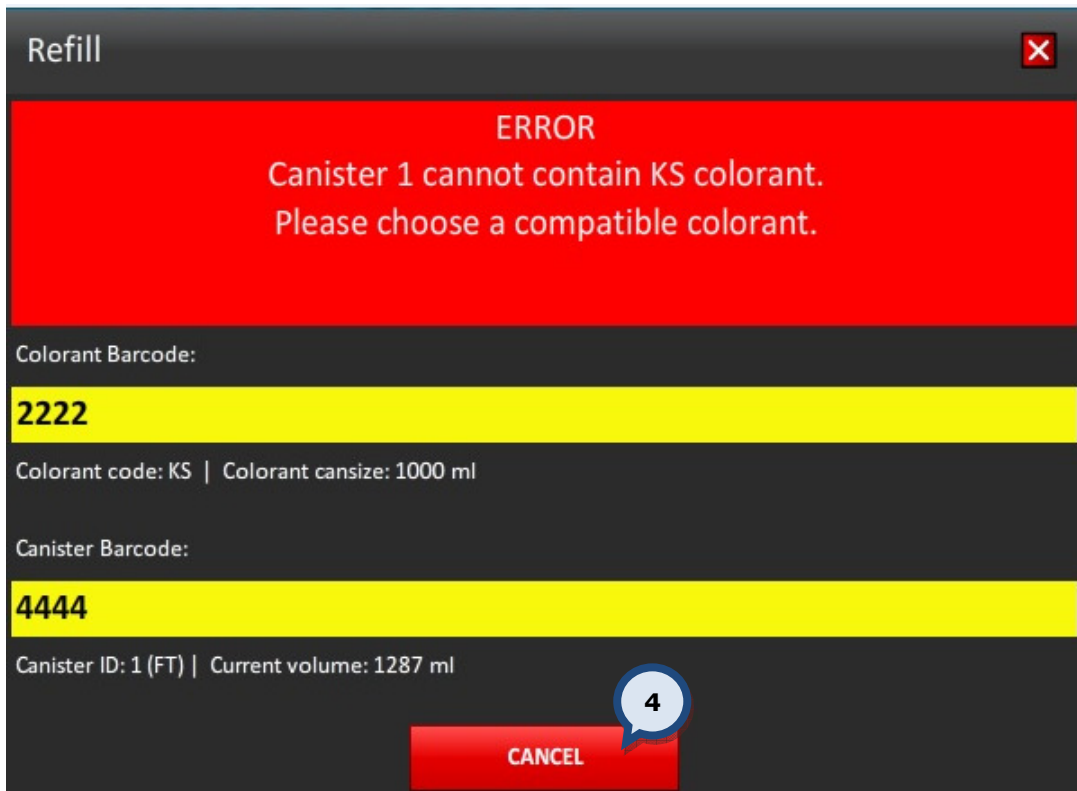
- 1. Colorant barcode:** The colorant bar code can be read with the bar code reader after the pointer is placed into this field.
- 2. Canister barcode:** The canister (in the dispensing machine) bar code can be read with the bar code reader after the pointer is placed into this field.

After both the colorant and canister bar codes are read, the following window appears:



- 3.OK:** The button to confirm the filling of the canister with the selected colorant.

If either a wrong colorant or canister pair is read with the bar code reader, the following message is displayed:



4.CANCEL: The button to abort the operation, and return to the previous window.

4.3. Colorant levels (single colorant view)

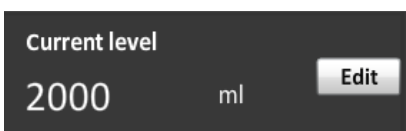
Use the **COLORANT LEVELS > Update colorant levels > Colorant levels** tab page to update the colorant level in a single tinting machine canister.

Access can be made by clicking the **COLORANT LEVELS** text on the right hand side of the screen, or by clicking **F3** button on the keyboard (see the picture on previous page). Then continue by clicking on any part of the screen to select a single colorant canister.

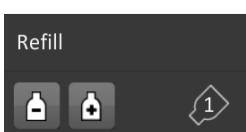
On this page the following items are displayed:



1.Canister capacity: The size (volume) of the colorant canister in the tinting machine.



2.Current level: The amount of colorant left in the colorant canister in the tinting machine. Click on **Edit** button to manually change the volume.



3.Refill: The buttons to **increase** (-) or **decrease** (+)colorant levels. Only the full colorant cans are used.



4. Click on the **Show all** button to return to the Update colorant Levels page.



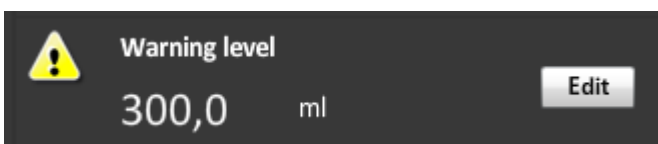
5. Use the arrow buttons to navigate to the next or previous colorant within the list.



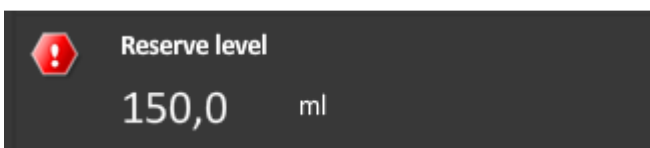
6. The size of the colorant can can be used to refill the canister. When using the refill + and - buttons only full colorant cans are used. Select a custom can size from the drop down list (only valid if custom can sizes for the colorants are set in the **InnovaTint LAB**), or type into the field the volume of the can.



7. **Reset:** The button to use default values.



8. **Warning level:** When the colorant amount in the colorant canister in the tinting machine is below the warning level, the yellow warning level symbol is displayed in the formula, and in the levels section on the main screen. Click on the Edit button to change the warning level amount or drag the slider to desired level.



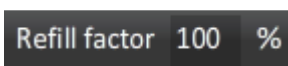
9. **Reserve level:** When the colorant amount in the colorant canister in the tinting machine is below the reserve level, the red warning level symbol is displayed in the formula, and on the levels section in the main screen, and dispensing of the formula containing this colorant is disabled.



10. Use the **X** button to return to the previous view.



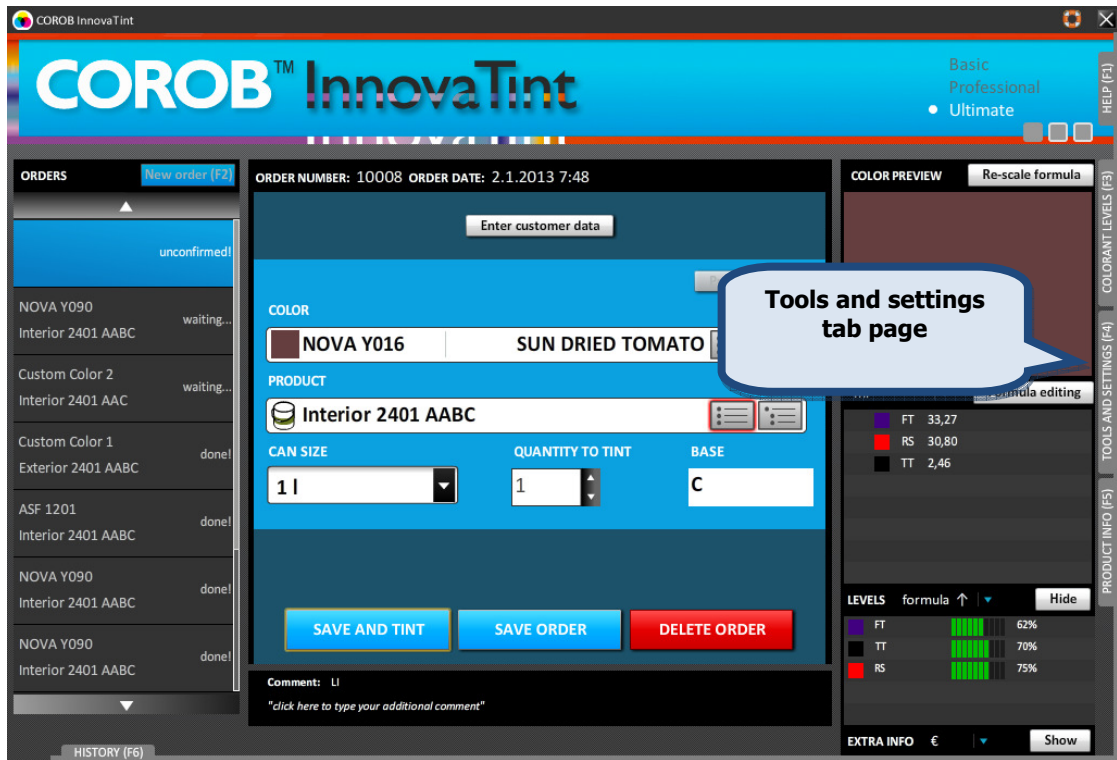
11. Click on the **SAVE** button to save changes.



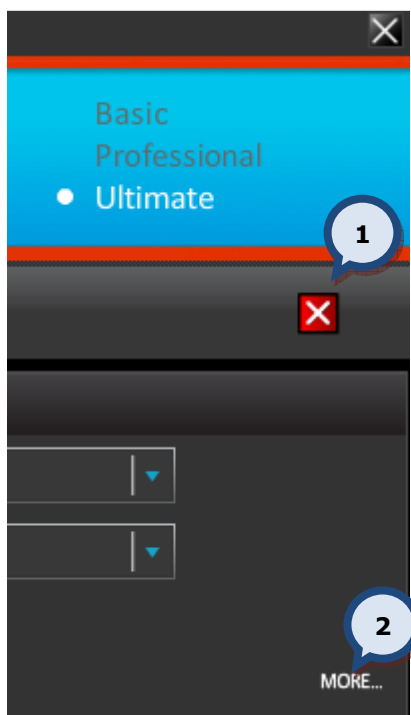
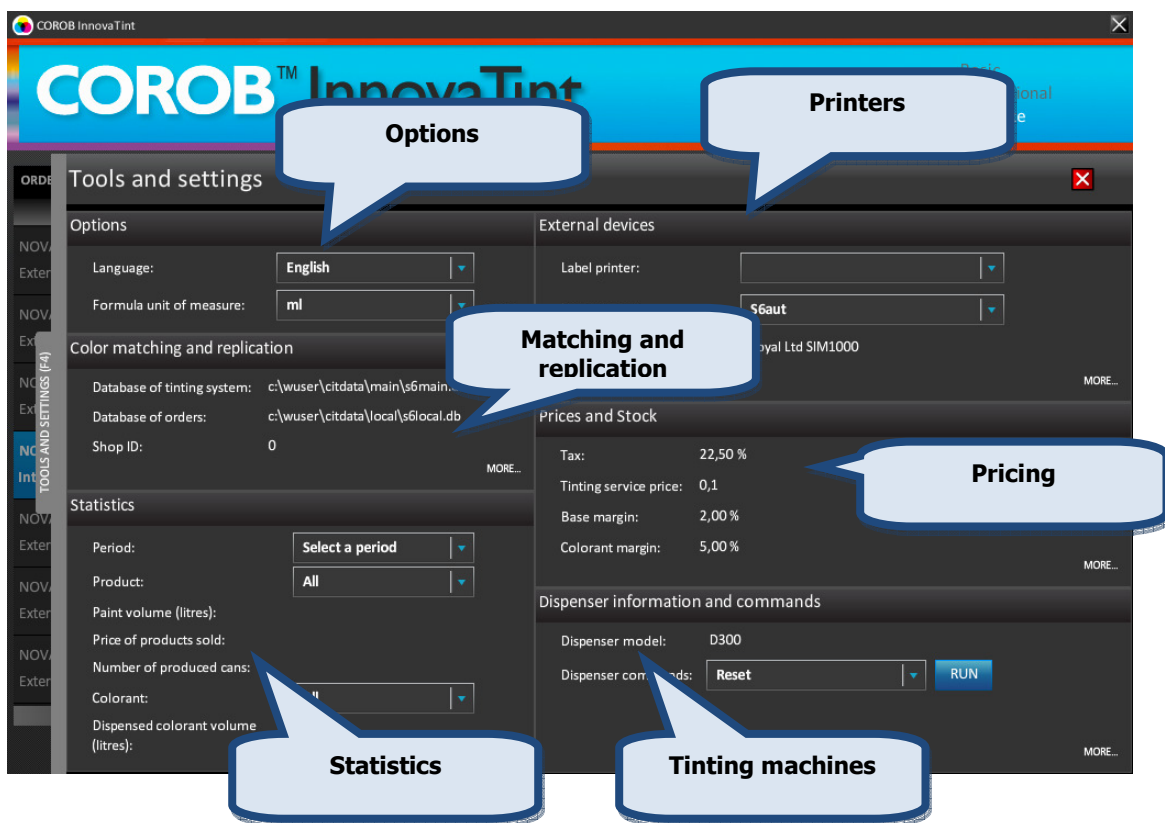
12. To set the factor for refilling success rate.


5. Tools and settings

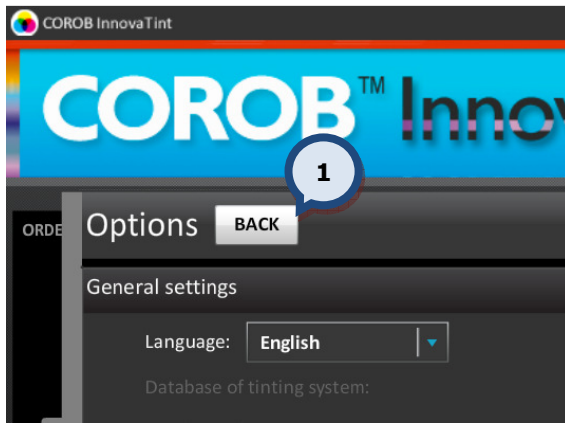
The **TOOLS AND SETTINGS** tab is to enable changes to various settings like language, units, printers, dispensing machines, and much more. Access is possible by clicking on the **TOOLS AND SETTINGS** text on the right hand side of the screen, or by clicking on the **F4** button on the keyboard.



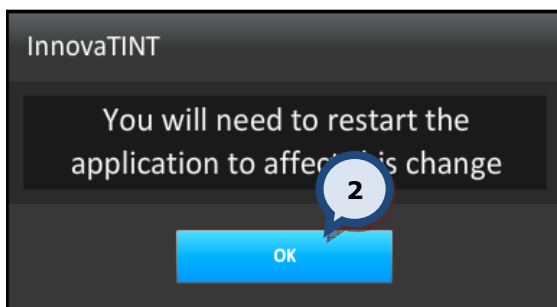
The **TOOLS AND SETTINGS** tab page has six parts, which all have further subpages within.



1. Use  button to navigate back to the main page of the program.
2. Use the **MORE...** button to see further details within any of the subpages available.



1. Use the **BACK** button to navigate back to the previous page.

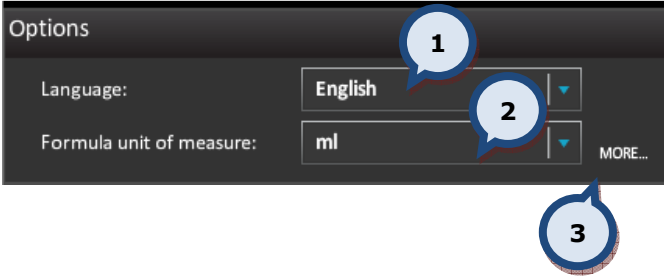


After all changes

2. **Restart the program** to make the changes effective.

5.1. Options

In the **Options** section of the **Tools and settings** page, the following are available:

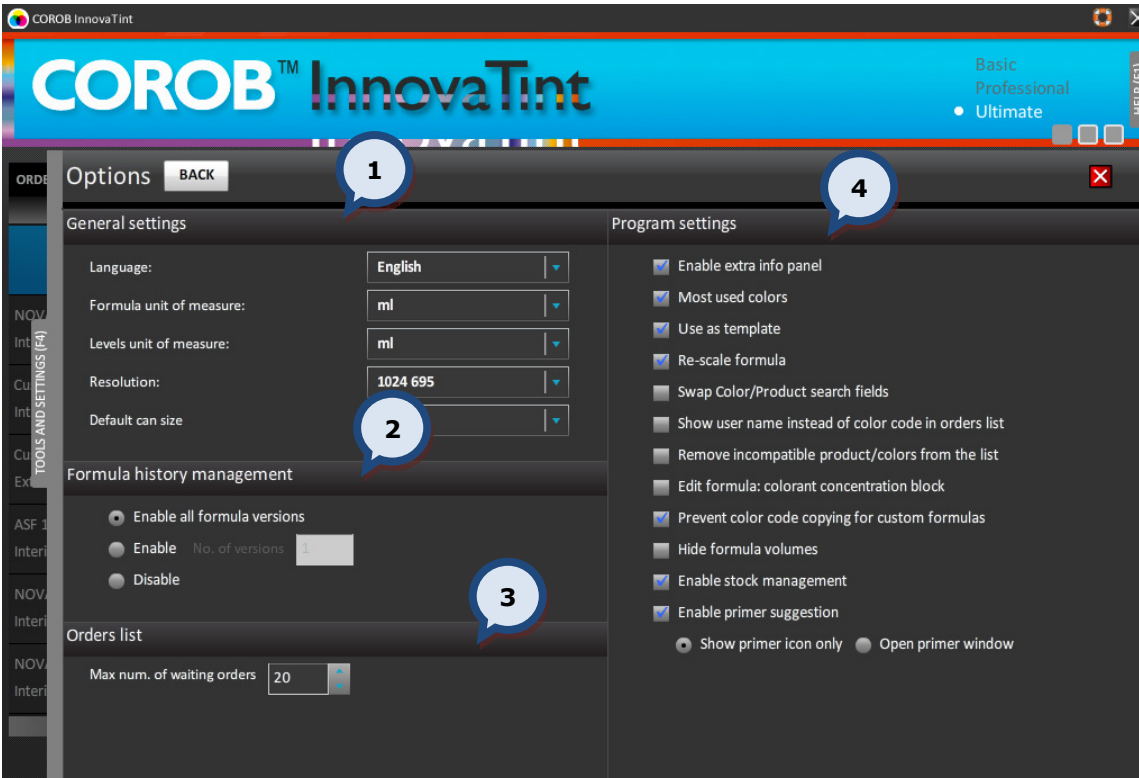


1. Language (Default language is English. All available languages are listed in **Appendix 3**.)

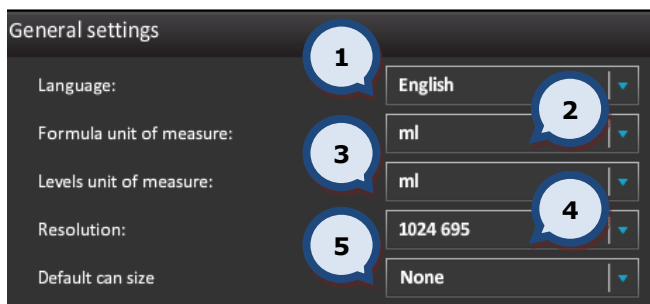
2. Formula unit of measure. This unit is used to display the color formula on the main page. Units available are handled by the **InnovaTint LAB** software.

3. MORE... The button to view more details.

On the **Options > MORE...** page there are four different sections available: **(1)** general settings, **(2)** formula history, **(3)** number of waiting orders, and **(4)** program settings.



In the **General settings** section, the following options are available:



1. Language (see previous page)

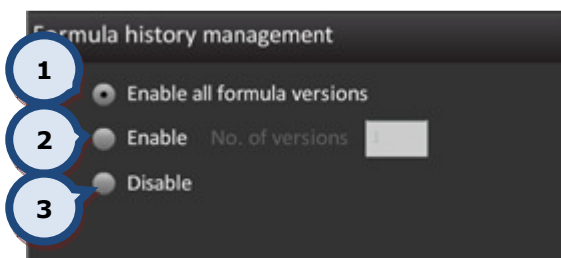
2. Formula unit of measure (see previous page)

3. Levels unit of measure. The default unit of measure used on the canister sizes.

4. Resolution. Smallest screen resolution for Shop 1024*695 (actual size 1024*768), space needed for default Windows "bar". InnovaTint Shop can use higher resolution, and then the user interface is scaled to the desired resolution. However, the monitor used needs to support this function. **"Fit to screen"** is the largest resolution possible without changing the width-length ratio. **"Full screen"** will use all available window space, including the Windows "bar". This way it is possible to use the whole space of the wide screen monitor. When the screen is wider, the order creation section is also wider.

5. Default can size determines which can size is used as the default when making a new order. This selection will make the order process faster, but the possibility for error (due to wrong can size) greater.

In the **Formula history management** section, the following options are available:



For the formula versions, select one of the following options via a radio button:

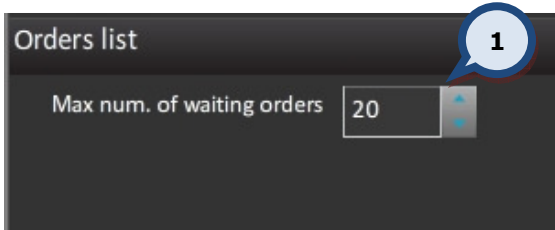
1. Enable all formula versions: all formula versions are stored and displayed.

2. Enable No. of formula versions: It is possible to determine how many formula versions are stored and displayed.

3. Disable: no formula versions are used.

NOTE: As a default, formula versions are not displayed. If this option is used and the product/color in a new order has a "history" formula, then the clock icon is displayed in the notes area. If the clock icon is clicked, then it is possible to select which formula to choose.

In the **Orders list** section, the following options are available:



1.Max num. of waiting orders: The maximum allowed number of waiting orders. When the maximum number of waiting orders has been reached, no new order can be created.

In the **Program setting** section, the following options are available:



1.Enable extra info page: When the check box is enabled, the extra info panel on main screen is in use.

2.Most used colors: When the check box is enabled, the most popularly sold colors are placed on top of the colors list in the color selector and highlighted with a yellow background color.

3.Use as template: When the check box is enabled, the previous order can be used as a template (when all order information is copied, including the customer information), and placed automatically into edit mode.

4.Re-scale formula: When the check box is enabled, the re-scale slider is visible in the main window.

5.Swap Color/Product search fields: When the check box is enabled the order of color/product selectors in the Orders screen is changed.

6.Show user name instead of color code in orders list: When the check box is enabled, the user name is displayed in the orders list instead of the color code.

7.Remove incompatible product/colors from the list: When the check box is enabled, the invalid products/colors are not displayed in the products or colors list.

8.Edit formula: colorant concentration block: When the check box is enabled, it is not possible to save a formula that violates the matching rules. Matching rules are set in the **InnovaTint LAB** software.

9.Prevent color code copying for custom formulas: When the check box is enabled, the color code of the regular color cannot be used in the custom formula.

10.Hide formula volumes: When the check box is enabled formula volumes are not displayed for the user, only colorant codes.

a

b

11.Enable stock management:

When the check box is enabled, the stock management is enabled on the **Stock tab page of the Tools and settings > Prices and stock > MORE...** page.

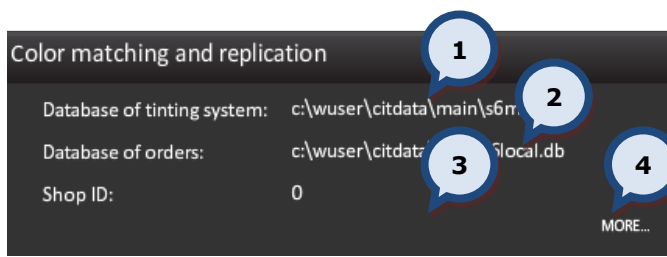
12.Enable primer suggestion: When the check box is enabled, the automatic primer suggestion is in use to optimize the hiding of the color. Two options are available to choose from via radio buttons:

a)Show primer icon only: When this radio button is selected the primer icon is shown in the notes area of the main screen (when a primer is needed), and the primer order is automatically created.

b)Open primer window: When this radio button is selected the primer icon is shown in the notes area of the main screen (when a primer is needed) and the primer selection window automatically appears. This provides the option to cancel the primer selection if not required.

5.2. Color matching and replication

In the **Color matching and replication** section of the **Tools and settings** page, the following options are available:



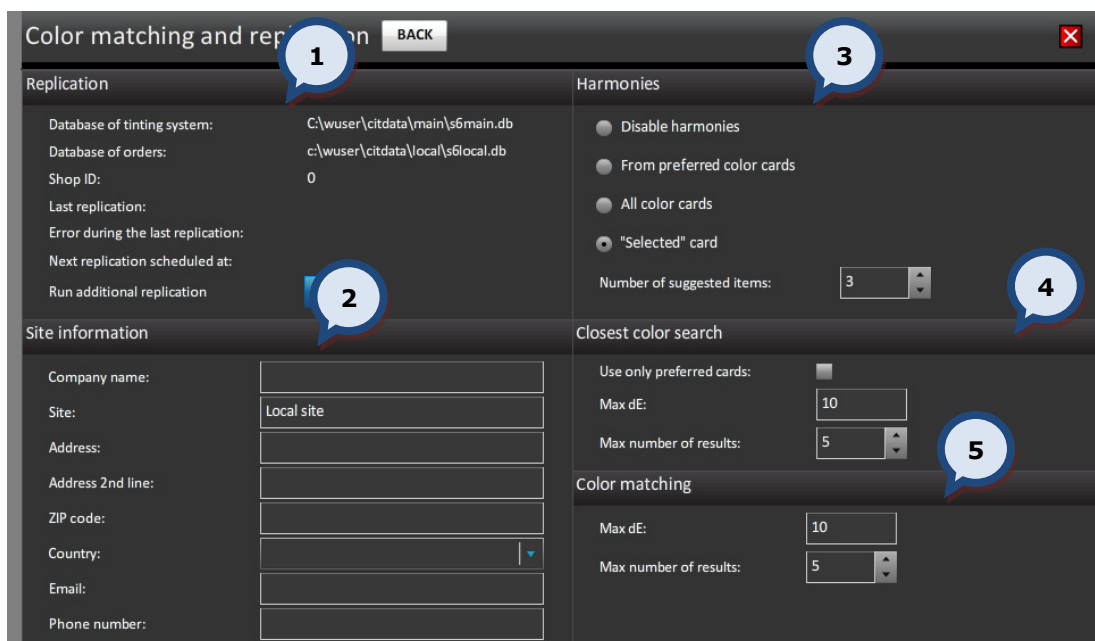
1. Database of tinting system: The file and the path for the main database (display only).

2. Database of orders: The file and the path for the local database (display only).

3. Shop ID: The unique shop ID. (display only).

4. MORE...: The button to view more details.

The **Color matching and replication > MORE...** page has five different sections: **(1)** Replication, **(2)** Site information, **(3)** Harmonies, **(4)** Closest color search, and **(5)** Color matching.



1. Replication

Database of tinting system: C:\wuser\citdata\main\s6main.db

Database of orders: c:\wuser\citdata\local\s6local.db

Shop ID: 0

Last replication:

Error during the last replication:

Next replication scheduled at:

Run additional replication

2. Site information

Company name:

Site: Local site

Address:

Address 2nd line:

ZIP code:

Country:

Email:

Phone number:

3. Harmonies

Disable harmonies

From preferred color cards

All color cards

"Selected" card

Number of suggested items: 3

4. Closest color search

Use only preferred cards:

Max dE: 10

Max number of results: 5

5. Color matching

Max dE: 10

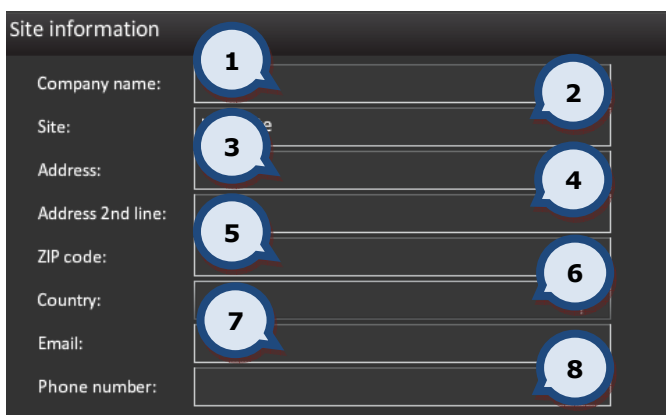
Max number of results: 5

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



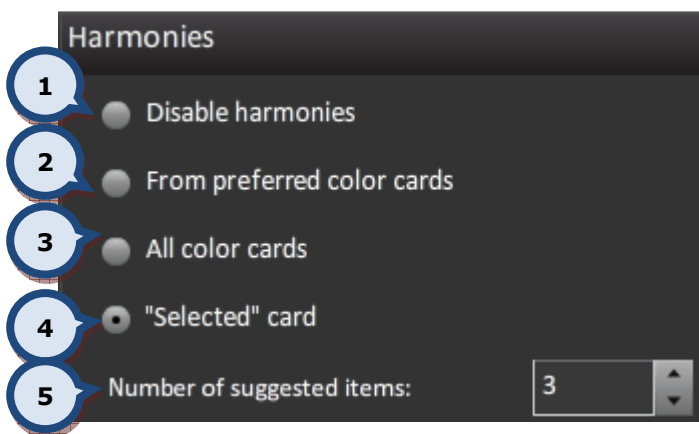
- 1. Database of tinting system:** The file and the path for the main database (display only).
- 2. Database of orders:** The file and the path for the local database (display only).
- 3. Shop ID:** The unique shop ID. (display only).
- 4. Last successful replication:** (display only).
- 5. Next replication scheduled at:** (display only).
- 6. Run additional replication:** The button to run an additional replication.

In the **Site information** section, the following options are available:



- 1. Company name:** The text field for the company name.
- 2. Site:** The text field for the site name (display only).
- 3. Address:** The text field for the address of the site.
- 4. Address 2nd line:** The text field for the address of the site.
- 5. ZIP code:** The text field for the postal or ZIP code of the site.
- 6. Country:** The drop down menu to select the country of the site. (to be used in customer entry as default country selection)
- 7. Email:** The text field for the email address of the site.
- 8. Phone number:** The text field for the phone number of the site.

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



In this section, it is possible to select one of the following options with the radio button:

1. Disable harmonies: Disables color harmonies area.

2. From preferred color cards: The color harmonies are searched from the preferred color card. Preferred color cards are set in InnovaTint LAB software.

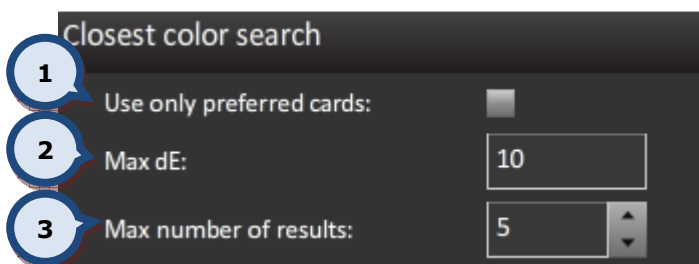
3. All color cards: The color harmonies are searched from all of the color cards within the database.

NOTE: may slow down the system significantly!

4. "Selected" color card: The color harmonies are search from the selected color card.

5. Number of suggested items: Sets the number of possible harmonies shown on the screen.

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

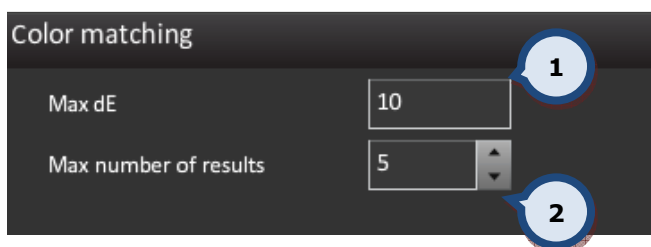


1. Use only preferred cards: If the check box is enabled, search for closest color is limited to preferred cards. Preferred color cards are set in InnovaTint LAB software.

2. Max dE: The maximum allowed color difference value used in the closest color search.

3. Max number of results: The maximum number of results to be displayed in the closest color search.

In the **Color matching** section, the following options are available:



1. Max dE: The maximum allowed color difference value used in the closest color search.

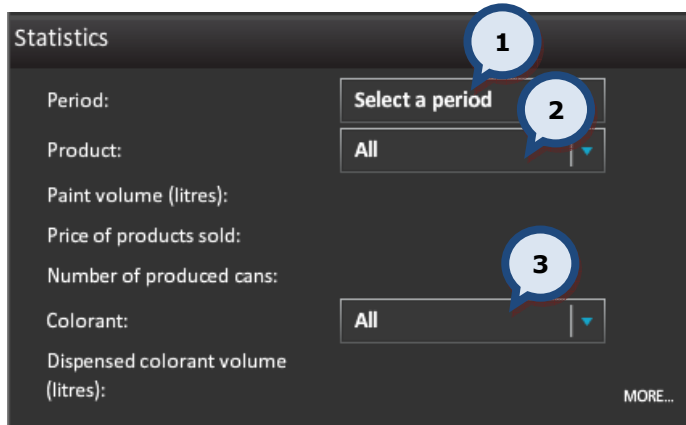
2. Max number of results: The maximum number of results to be displayed in the closest color search.

5.3. Statistics

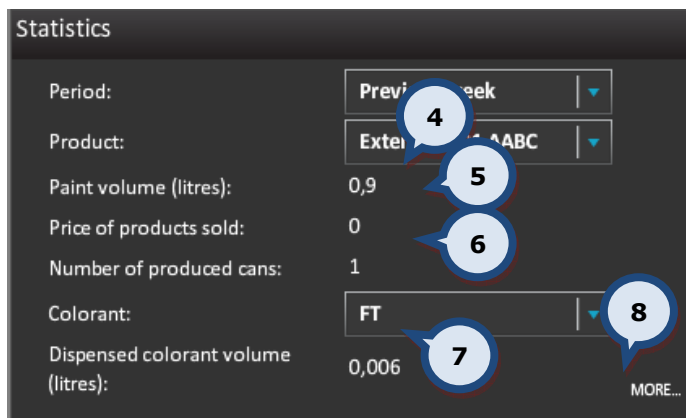
In the **Statistics** section of the **Tools and settings** page, parameters can be set to limit the statistics search results.

All orders are stored into the local database; this will enable statistical evaluation of the tinting history.

In this section, the following options are available:



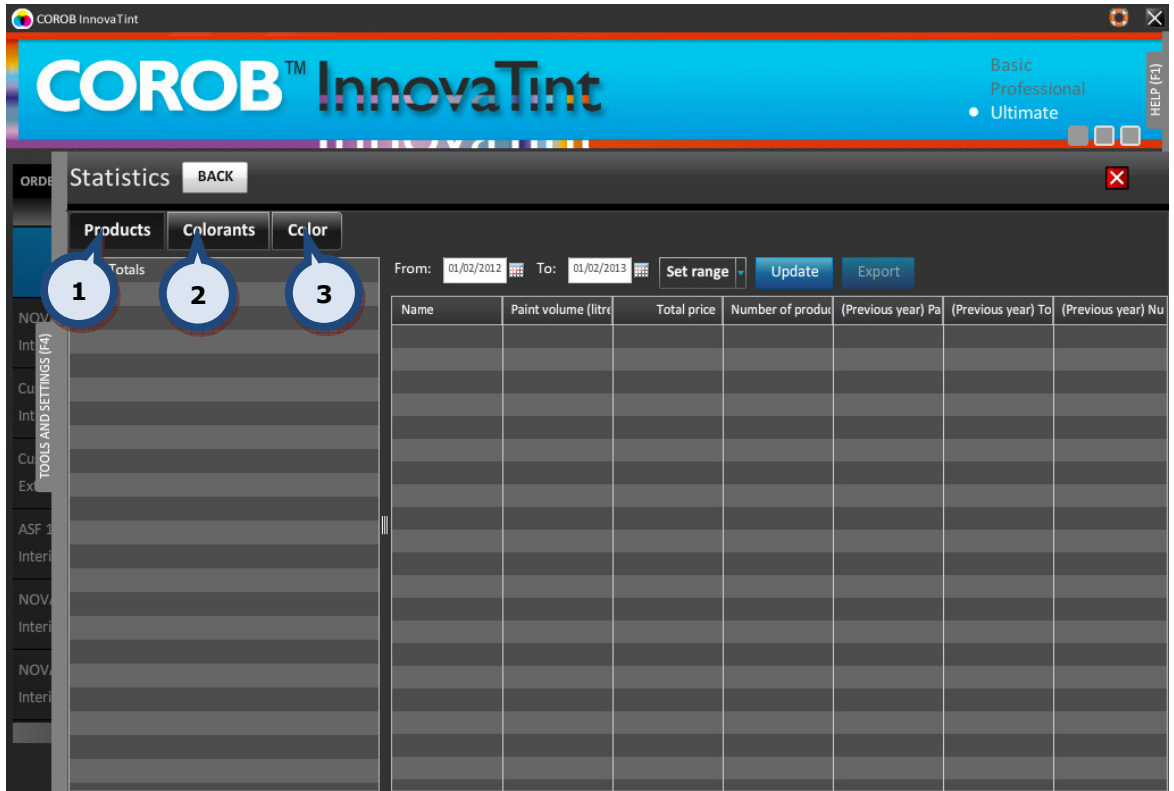
- 1.Period:** The drop down list to select the viewing period.
- 2.Product:** The drop down list to select the Product.
- 3.Colorant:** The drop down list to select the Colorant.



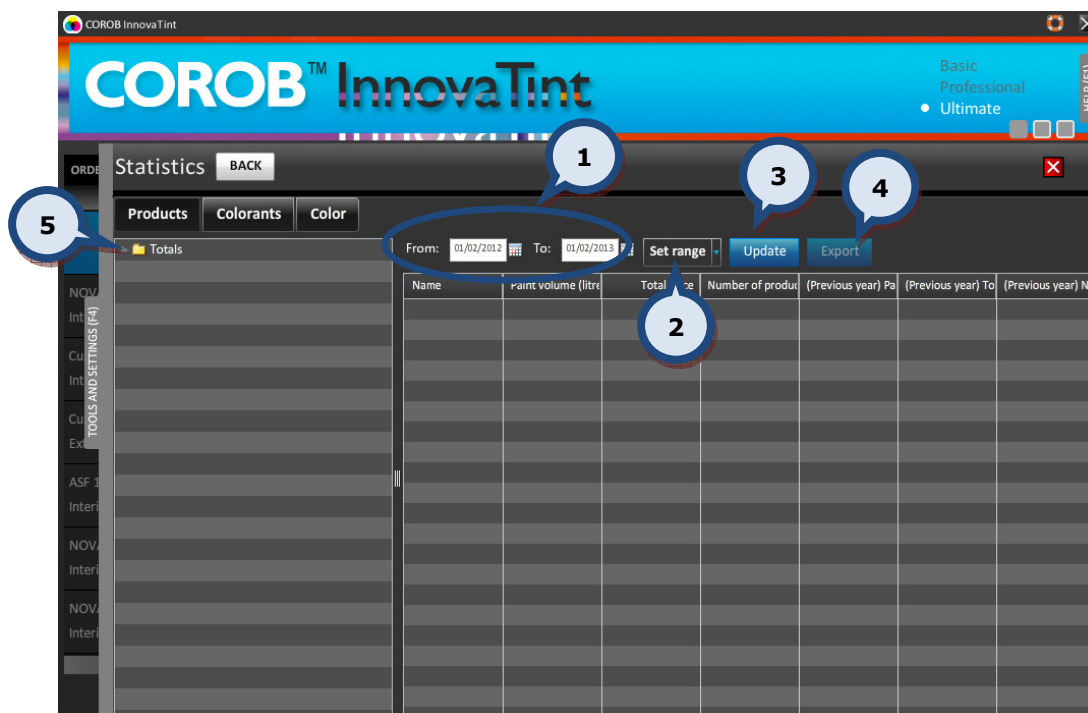
immediately the search results will be visible once selections have been made. Displayed items are:

- 4.Paint volume**
- 5.Price of products sold**
- 6.Number of produced cans**
- 7.Dispensed colorant volume**
- 8.MORE...:** The button to view more details.

The **Statistics > MORE...** page has three different sections to view statistics. These are sorted by: **(1)** Products, **(2)** Colorants, or **(3)** Color.

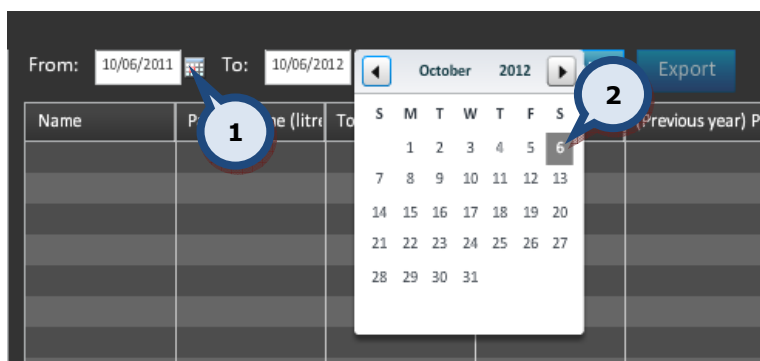





The following options can be used to narrow the search result on all three subpages:



- 1. From and To:** The date fields to specify a certain period of time to use as filter criteria. See below for further instructions about this function.
- 2. Set range:** The selector field to select a predefined time range. Options are: Previous week, previous month, and previous year.
- 3. Update:** The button to clear the table content.
- 4. Export:** The button to export the statistics view on the table into the text file.
- 5. Totals:** The area to limit search to a particular product/base or group information, for example, weekdays.

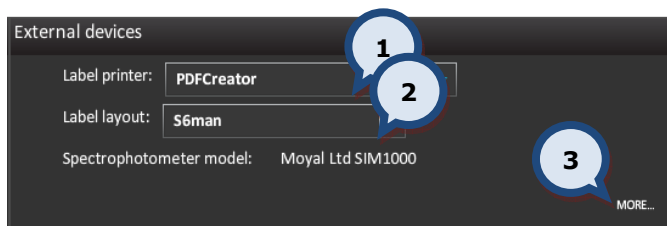
When selecting date fields with the **calendar** function, the following appears:



- 1.** The  button to open up the calendar.
- 2.** The **calendar** to select the date. Use the  and  buttons to navigate to a different month within the calendar.

5.4. External devices

In the **External devices** section of the **Tools and settings** page, the following options are available:

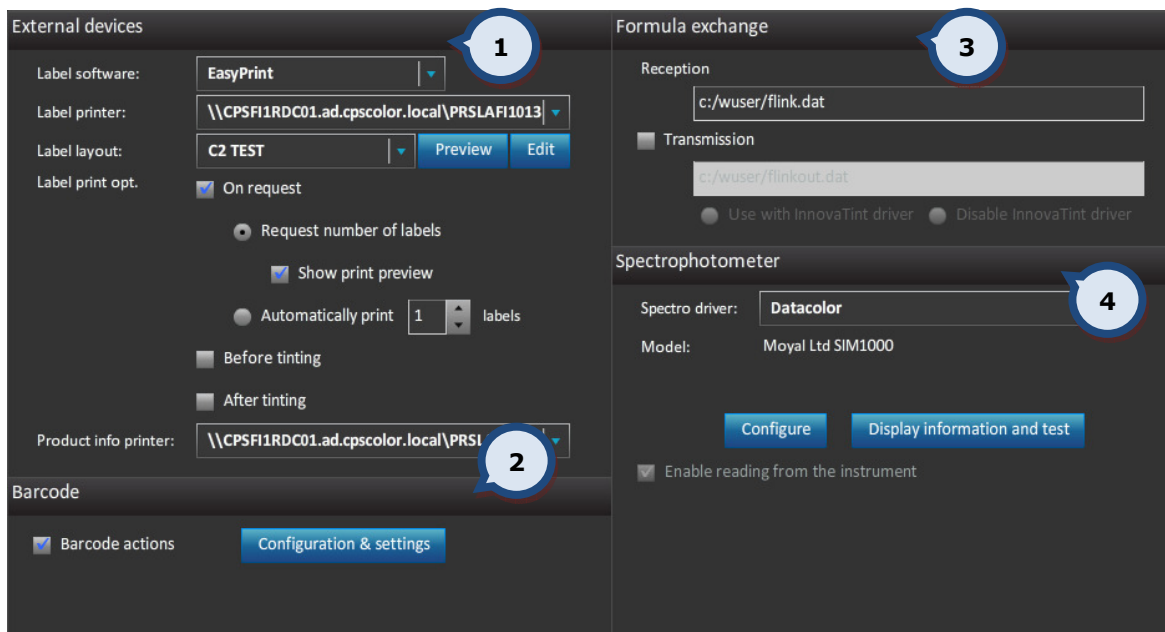


1. Label printer: The drop down list to show all of the printers installed into the Windows. To install a new printer, follow the normal Windows printer installation procedure.

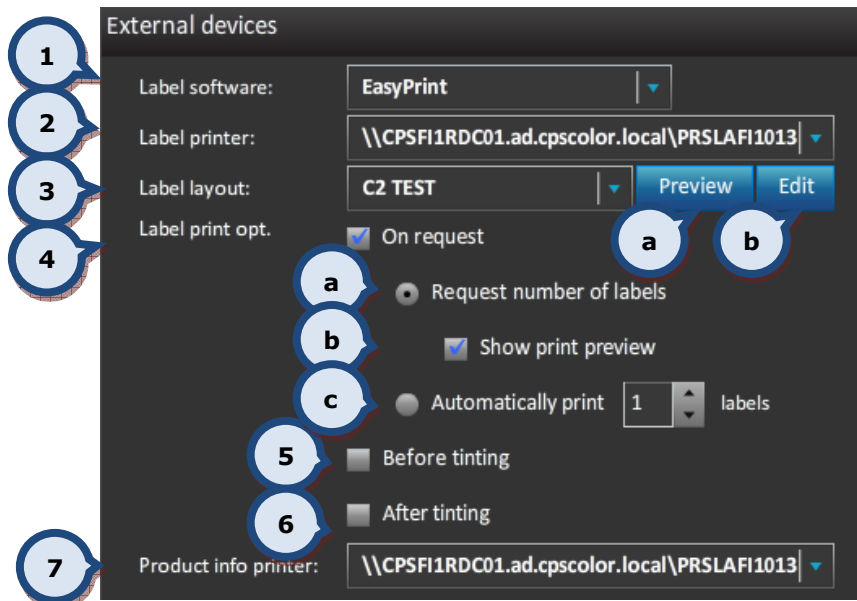
2. Label template: The drop down list to show all of the templates created with the selected label program; **EasyPrint** or *AnyLabel* (external software). see further instruction on coming pages.

3. MORE...: The button to view more details.

The **External devices > MORE...** page has four different sections: **(1)** External devices **(2)** Barcode, **(3)** Formula exchange, and **(4)** the Spectrophotometer.



In the **External devices** section, the following options are available:



1. Label software: The drop down list to select label software, Easyprint (Chromaflores own default solution, See **APPENDIX 4**) or Anylabel (alternative commercial solution)

2. Label printer: The drop down list to show all of the printers installed into the Windows. To install a new printer, follow normal Windows printer installation procedure.

3. Label layout: The drop down list to show all of the templates created with the selected software.

In case of Anylabel; If a new label template is to be created, then use the AnyLabel program and save created label files into c:\wuser\anylabel\files -folder.

a. Preview: Displays preview sample of the selected layout (only for Easyprint)

b. Edit: opens EasyPrint designer program to edit or create new layouts. See **APPENDIX 4** for further instructions.

4. On request: When the check box is enabled, the label is printed only when requested.

When the On request check box is enabled, There are three options to choose from:

a. Request number of labels: When the radio button is selected, the number of labels to be printed is asked before printing.

b. Show print preview: If check box enabled a preview of the label is shown

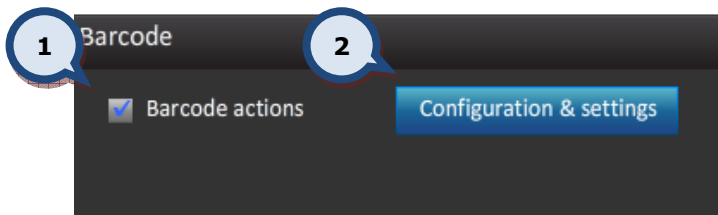
c. Automatically print: When the radio button is enabled, the labels are printed when requested. The number of labels to be printed is entered into the text box next to radio button.

5. Before tinting: When the check box is enabled, the label is printed before tinting. The number of labels to be printed is entered into the text box next to check box.

6. After tinting: When the check box is enabled, the label is printed after tinting. The number of labels to be printed is entered into the text box next to check box.

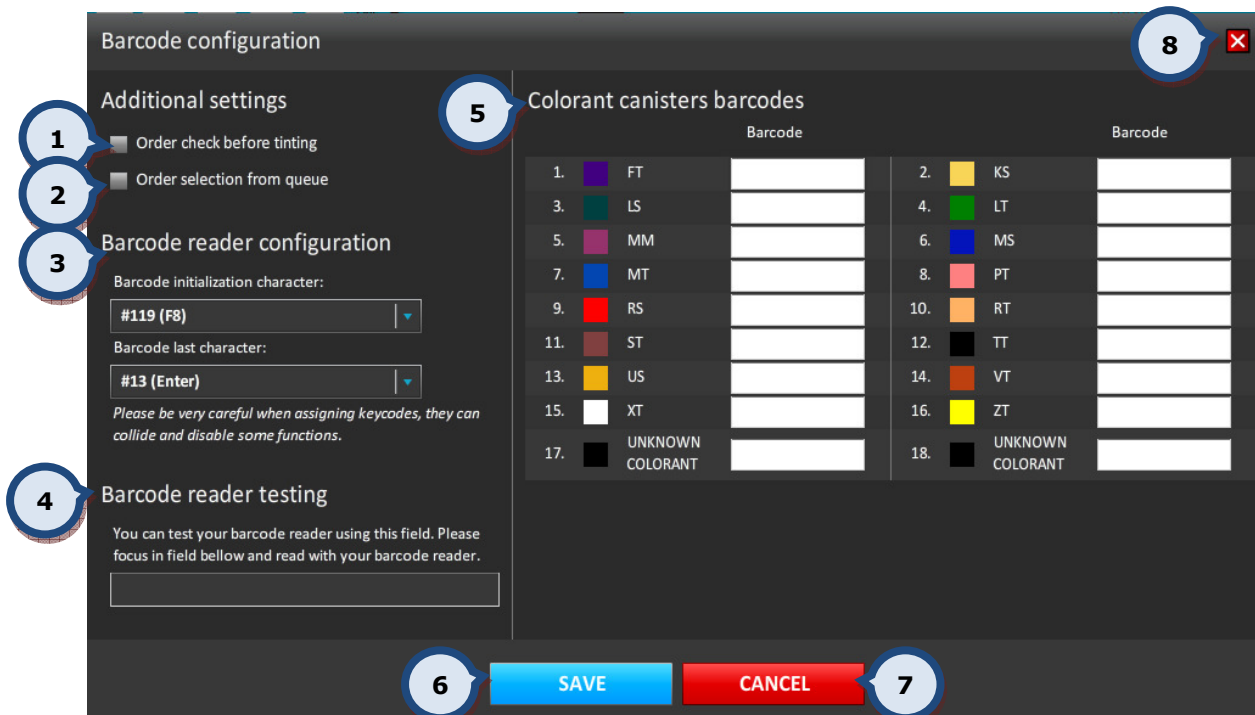
7.Product info printer: The drop down list to show all of the printers installed into the Windows. To install a new printer, follow normal Windows printer installation procedure.

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



1.Barcode actions: When the check box is enabled, the bar code actions are on, such as: Enter, OK, Tint, and Save are enabled. These settings are done in **InnovaTint LAB** software.

2.Configuration & settings: Click on configuration settings will open a new window to further setup barcoding behavior.



1.Order check before tinting: When the check box is enabled, confirmation with the bar code reader is needed to ensure that the correct can has been placed into the tinting machine.

2.Order selection from queue: When the check box is enabled, it is possible to select an order from the tinting queue by reading the paint can bar code with the bar code reader. When the correct product, can size, or base paint code is read (same code found in the dispensing queue) the order is automatically tinted. If the same code is found multiple times within the dispensing queue, the correct one needs to be selected from the list.

3.Barcode reader configuration: By default InnovaTint expects to receive with the read barcode an "initialization character – F8" and an "ending character – Enter", if the barcode reader has been set for something else, the same selection must be made here.

4.Barcode reader testing: Testing area to test that barcode reader is correctly configured.

5.Colorant canister barcodes: The text field for the bar code for the colorant canisters in the tinting machine.

6.Save: To save the changes.

7.Cancel: to discard the changes made

8. to exit the view.

In the **Formula exchange** section, the following options are available:



1.Reception: The file name and the location for the formula (order) to be received. InnovaTint can receive orders from an external source if incoming information is according to the syntax of the Flink program (by Corob) and also has same product and colorant coding as in the InnovaTint database. The minimum requirement is that the colorant codes are equal in the incoming order and in the InnovaTint database. If the incoming order has the correct codes for the colorants, product, base paint and can size, the order can be accepted automatically, otherwise the order is handled as a “new formula” and missing information has to be added manually. See further instructions **APPENDIX 5**.

2.Transmission: the **file name and location** for the formula (order) to be sent to the external tinting device (other than Corob). Communication between InnovaTint and a Corob tinting equipment is handled automatically, but if the requirement is to use a tinting equipment from another supplier, the Flink protocol can be used to send the formula information to this device. The driver of the tinting equipment needs to be able to use the Flink protocol.

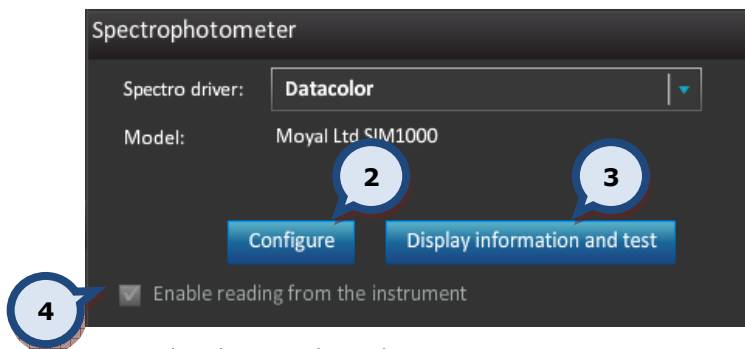
Regarding the use of the InnovaTint driver, two options with the radio buttons are available:

3.Use with InnovaTint driver: When the radio button is enabled, the Corob tinting machine is used for tinting, and the formula is also sent to the Flink file. The Flink file can be used to send the formula to another program e.g. an external statistics program.

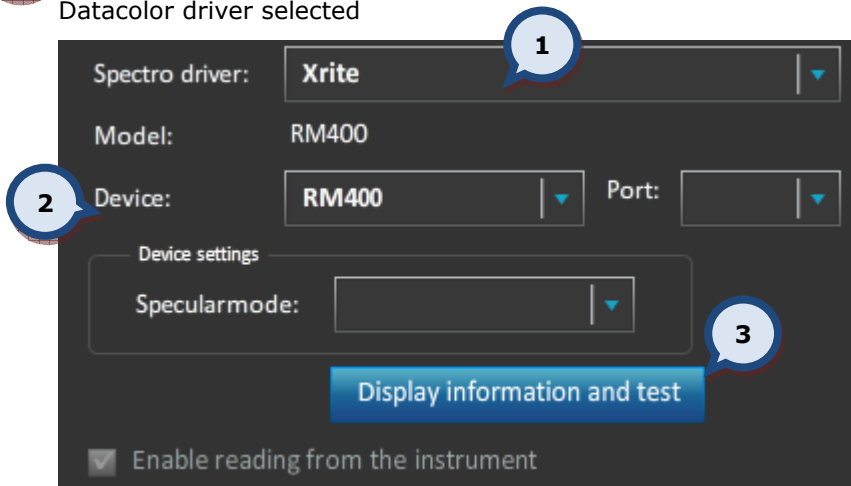
4.Disable InnovaTint driver: When the radio button is enabled the InnovaTint driver is disabled and the Flink file is used to communicate with the tinting equipment. Furthermore, the LEVELS table in the main page, the COLORANT LEVELS tab, Dispenser information and commands area are disabled.

NOTE: both reception and transmission may have multiple sources set, this can be done by separating different paths with “;”-semi colon sign.

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



Datacolor driver selected



X-Rite driver selected

1.Spectro driver: The drop down list to select the spectrophotometer driver; Datacolor or X-Rite.

2.Configure: The button to run the spectrophotometer configuration / area to configure the device. See further instructions about the Datacolor configuration on the following pages.

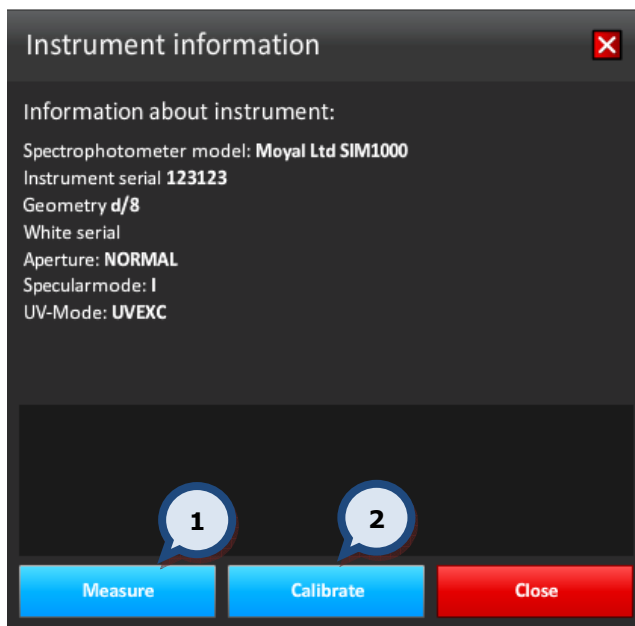
3.Display information and test: The button to display the spectrophotometer information. Calibration and test measurement can also be done from the popup window.

4.Enable reading from the instrument: When the check box is enabled the reading from the spectrophotometer is enabled.

Note: This function has to be disabled if the spectrophotometer is not attached to the computer.

Note: All valid spectrophotometers are listed in **appendix 2**.

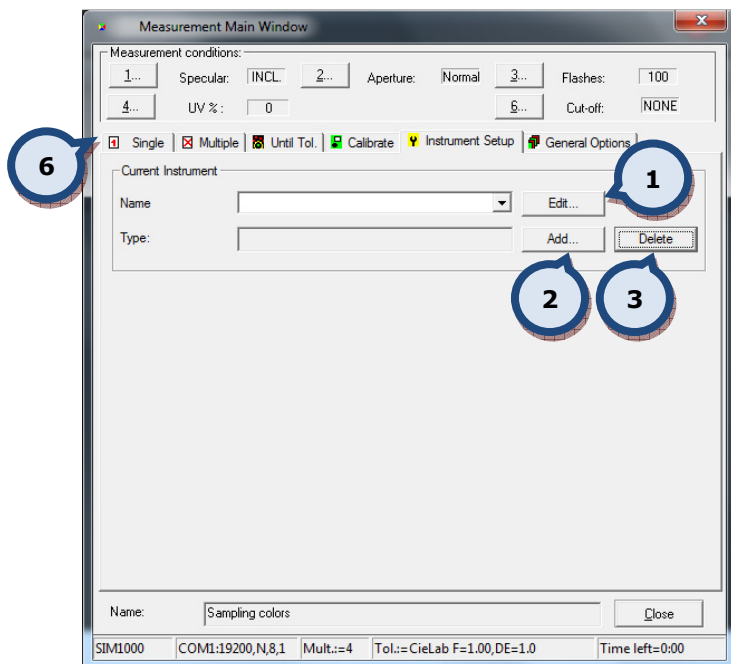
When the **Display information and test** button has been clicked, the following options become available:



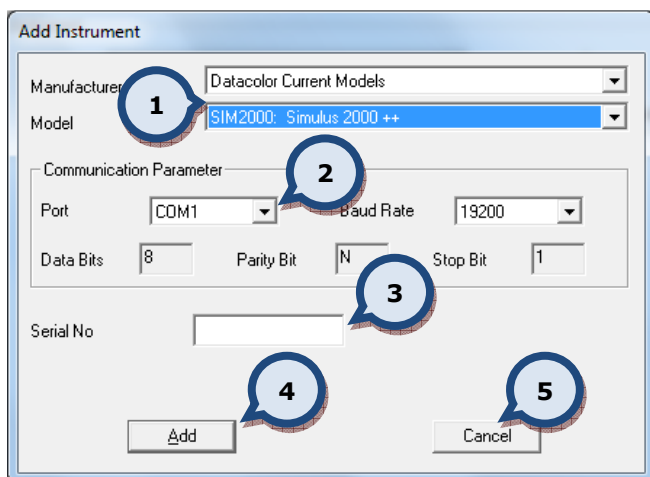
1.Measure: The button to make the test measurement.

2.Calibrate: The button to calibrate the spectrophotometer.

When the **Configure** button has been clicked (and Datacolor driver selected) the Measurement Main Window appears.

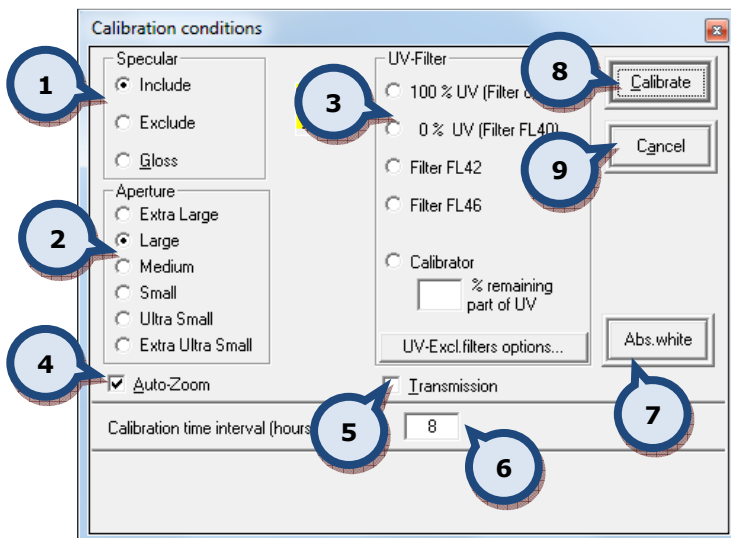


- 1.Edit..:** The button to edit the already installed device.
- 2.Add..:** The button to add a new device.
- 3.Delete..:** The button to delete the already installed device.
- 4.Close.** exit window without saving any changes.



When the **Add..** button has been clicked, the following window appears:

- 1.Manufacturer/Model:** The spectrophotometer model selector.
- 2.Communication Parameter:**
 - Port:** The connector on which the spectrophotometer is physically attached.
 - Baud Rate:** The communication setting, use the default value.
 - Data Bits:** The communication setting, use the default value.
 - Parity Bit:** The communication setting, use the default value.
 - Stop Bit:** The communication setting, use the default value.
- 3.Serial No:** The serial number of the spectrophotometer.
- 4.Add:** The button to continue the "add new device" process.
- 5.Cancel:** The button to abort the installation without saving.



When the Add button has been clicked on the Add Instrument screen, the following screen appears:

1.Specular: Select between Include, exclude, and gloss.

2.Aperture: Extra large, Medium, Small, Ultra small, Extra ultra small.

3.UV-filter: 100% UV (filter off), 0% UV (filter FL40), Filter FL42, Filter FL46, Calibrator XX % remaining part of UV, UV Excl Filter options...)

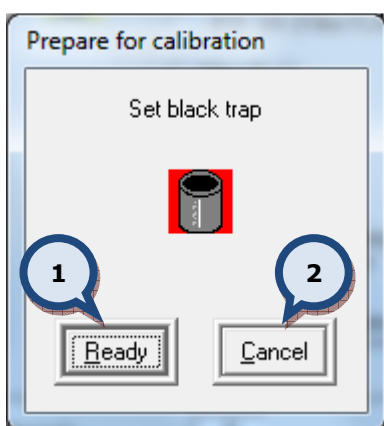
4.Auto-Zoom: on/off.

5.Transmissions. on/off.

6.Calibration time interval (hour): The frequency of calibration .

8.Calibrate: The button to start the calibration process.

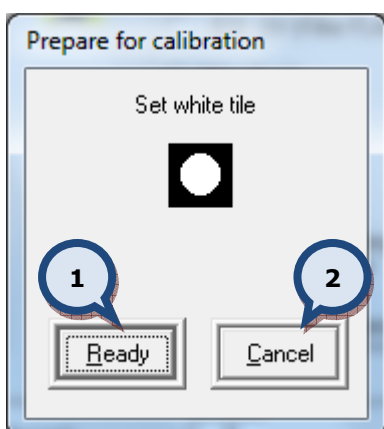
9.Cancel: The button to abort the installation without saving.



When the calibrate button has been clicked on the Calibration conditions screen, the following dialogue appears:

1.Ready: Click **Ready** button to continue.

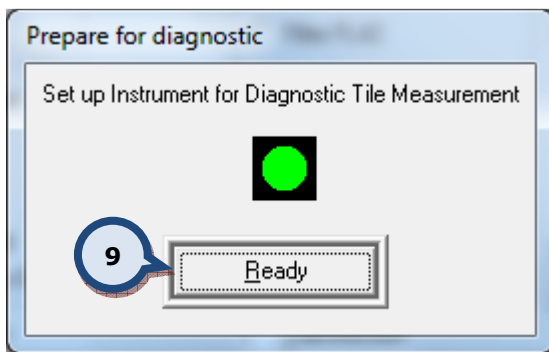
2.Cancel: The button to abort the installation without saving.



When the **ready** button has been clicked on the Prepare for calibration screen, the following dialogue appears:

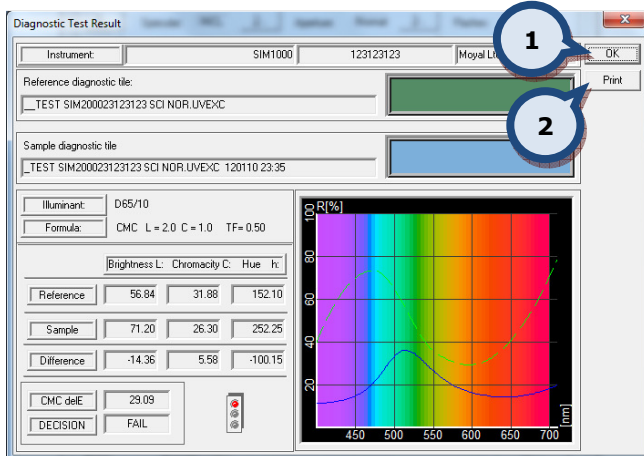
1.Ready: click on **Ready** button to continue.

2.Cancel: The button to abort the installation without saving.



When the **ready** button has been clicked on the Prepare for calibration screen, the following dialogue appears:

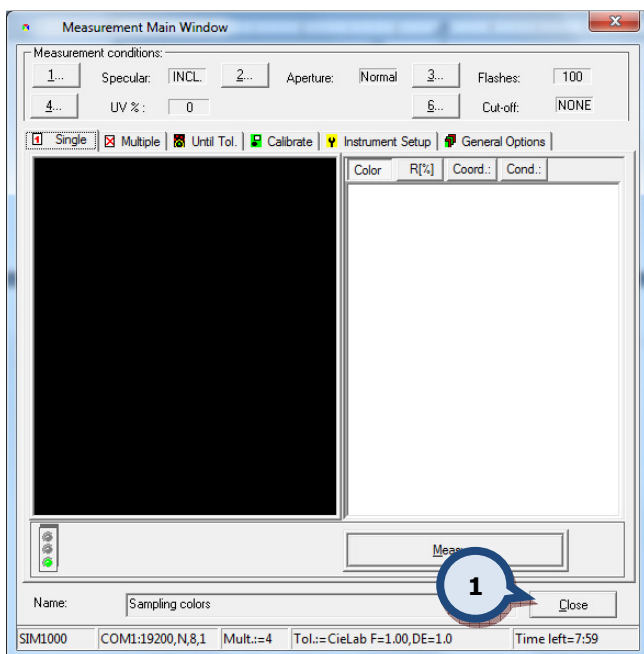
1.Ready: Click on **Ready** button to continue.



When the **ready** button has been clicked on the Prepare for diagnostic screen, the following screen appears:

1.OK: Click on **OK** button to continue

2.Print: The button to print a diagnostic test result.

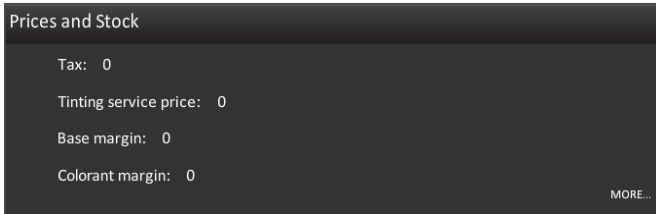


When the **OK** button has been clicked on the Diagnostic test result screen, the following screen appears:

1.Close: click on **Close** button to end the installation and the calibration sequence.

5.5. Prices and Stock

In the **Prices and Stock** section of the **Tools and settings** page, taxes, tinting fees, and margins can be set, together with the option to manage information displayed in the main screen of the program.



The main window displays the Common level Tax, Tinting service price, base margin, and Colorant margin.

The **Prices and Stock > MORE...** page has three tabbed pages: **(1) Price**, **(2) Stock**, and **(3) Info settings**.



5.5.1. Price

Price calculation is driven by a number of parameters that may be inserted to the PRICE_XXX tables in the main db, and in the corresponding LPRICE_XXX tables in the local db.

If the same parameter is found in multiple tables, the value from the highest priority table is used, according to this order:

PRICE_COMMON (lowest priority)
PRICE_CANSIZE
PRICE_PRODUCT
PRICE_BASE
PRICE_CAN
PRICE_PRODUCT_COLOUR (only in main db)
PRICE_CNT (highest priority)

Values in the local db have priority over the main db, unless the parameter is locked in the main db by inserting the parameter name in PRICE_LOCK. In that case the corresponding values in local db are ignored.

Missing parameters are assumed value of 0, except the rounding steps which default to 0.01.

The following table lists all parameters and the tables where each might be inserted in typical usage:

Parameter	Description	PRICE_COMMON	PRICE_CANSIZE	PRICE_PRODUCT	PRICE_BASE	PRICE_CAN	PRICE_PRODUCT_COLOUR	PRICE_CNT
TAX	Tax rate	✓		✓				
CTAX	Tax rate on colorants, if different	✓						
TINTFEE	Tinting fee	✓	✓	✓				
BCOST	Base cost per can					✓		
BCOSTL	Base cost per litre (for custom can size)				✓			
BMARGIN	Base margin rate	✓		✓	✓		✓	
BPRICE	Base price					✓		
CCOST	Colorant cost							✓
CMARGIN	Colorant margin rate	✓						✓
MRP	Maximum retail price					✓		
BROUND	Rounding step for base price	✓						
CROUND	Rounding step for colorant price	✓						
LROUND	Rounding step for list price	✓						
PROUND	Rounding step for (final) price	✓						
USEPG	Enable price groups (non-zero value)	✓		✓				
PGLIMIT	Price group limit (colorant cost/nominal quantity, in l or kg) for each price group	✓		✓	✓			
PGCPRICE	Colorant price according to price group		✓					
PGPRICE	Total list price according to price group					✓		
PGBC	Barcode of price group		✓			✓		

Tax and margins are inserted as numbers between 0 and 1. Tax is relative to tax-free price and margin is relative to selling price.

It is possible that some or all items are disabled through the InnovaTint LAB software using the "LOCKS" function. This will prevent using the Custom values instead of the predefined values. In this case it is possible to input a new value into the table, but it will not be saved into the local database.

The rounding of the values are done according to the following example:

1.012 -> 1.01

1.015 -> 1.02

Tax-inclusive prices are generally the above multiplied by (1 + TAX). If rounding is enabled, it is applied to the tax-inclusive price, and the price before tax, and margin, are calculated backwards from there. If CTAX is set, it applies to Price of tinting, and TAX applies to Base price.

In the **Common data** level, the following options are available:



- 1.** Custom value field
- 2. Price group:** The check box to show and hide the price groups. The price groups are set up in the InnovaTint LAB program.
- 3. RESET:** Reset entered values
- 4. SAVE:** Save entered values

Note: When the price groups are not set up in the **InnovaTint LAB** software, the items related to the price groups are not visible.

In the **Common data** level it is possible to define the following Custom Values into the Custom value column:

- Base margin (%)** = $\text{Base price} - \text{Base cost} / \text{Base price} * 100\%$
- Base price rounding** = The rounding of the base paint price
- Colorant margin (%)** = $\text{Colorant price} - \text{Colorant cost} / \text{Colorant price} * 100\%$
- Colorant price rounding** = The rounding of the colorant price
- Final price rounding** = The rounding of the final price
- List price rounding** = The rounding of the list price
- Price group limit for group** = The price limit for the price group 1.
- Price group limit for group** = The price limit for the price group 2.
- Price group limit for group** = The price limit for the price group 3.
- Tax (%)** = Tax rate in percentage of tax-free price.
- Tinting service price** = additional flat fee, independent of the color

In the Common data > **Colorants** level it is possible to define the following Custom Values into the Custom value column for each of the colorants separately:

Description	Value	Custom value
Colorant cost	17,84	
Colorant margin (%)	5,00	

Colorant cost = (internal) Cost of colorant

Colorant margin (%) = $\text{Colorant price} - \text{Colorant cost} / \text{Colorant price} * 100\%$

In the Common data > **Can sizes** level it is possible to define the following Custom Values into the Custom value column for each of the can sizes separately:

Description	Value	Custom value
Colorant price for group	0	
Colorant price for group	0	
Colorant price for group	0	
Tinting service price	0,1	

Colorant price for group = Colorant price for price group 1

Colorant price for group = Colorant price for price group 2

Colorant price for group = Colorant price for price group 3

Tinting service price = additional flat fee, independent of the color

In the Common data > **Products (when product selected)** it is possible to define the following Custom Values into the Custom value column for each product separately:

Description	Value	Custom value
Base margin (%)	2,00	
Price group limit for group	2	
Price group limit for group	5	
Price group limit for group	15	
Tax (%)	22,50	
Tinting service price	0,1	

Base margin (%) = $\text{Base price} - \text{Base cost} / \text{Base price} * 100$.

Price group limit for group = The price limit for the price group 1.

Price group limit for group = The price limit for the price group 2.

Price group limit for group = The price limit for the price group 3.

Tax (%) = Tax rate in percentage of tax-free price.

Tinting service price = additional flat fee, independent of the color

In the Common data > **Products (when base paint selected)** level it is possible to define the following Custom Values into the Custom value column for each base paint separately:

Price	Stock	info settings	Reset	Save
Common data	Description	Value	Custom value	
Colorants	Base cost (per litre)	25		
Can sizes	Base margin (%)	2,00		
Products	Price group limit for group	2		
Exterior 2401 AABC	Price group limit for group	5		
AA	Price group limit for group	15		
B				
C				
AA				
B				
C				
Exterior 2401 AAC				
Interior 2401 AABC				
Interior 2401 AAC				

Base cost (per liter) = Volumetric Base cost (eur/liter).

Base margin (%) = $\text{Base price} - \text{Base cost} / \text{Base price} * 100\%$.

Price group limit for group = The price limit for the price group 1.

Price group limit for group = The price limit for the price group 2.

Price group limit for group = The price limit for the price group 3.

In the Common data > **Products (when can size of base paint selected)** level it is possible to define the following Custom Values into the Custom value column for each can size separately:

Price	Stock	Info settings	Reset	Save
Common data	Description	Value	Custom value	
Colorants	Base cost (per can size) [€]	20		
Can sizes	Base price [€]	0		
Products	Maximum retail price	0		
Exterior 2401 AABC				
AA				
0,25 l				
1 l				
4 l				
10 l				
B				
C				
Exterior 2401 AAC				
Interior 2401 AABC				
Interior 2401 AAC				

Base cost (per can size) = Cost of can of base (eur/can size xx l)

Base price = Price of base (eur/liter).

Total list price for group = The total list price for the price group 1.

Total list price for group = The total list price for the price group 2.

Total list price for group = The total list price for the price group 3.

Maximum retail price = Maximum retail price (MRP).

If MRP is set and the calculations would make List price including tax greater than MRP, List price is set to MRP and Margin is adjusted accordingly.


5.5.1. Stock

In the **Stock** section of the **Tools and settings** > **Prices and stock** page, it is possible to view and update the stock levels of the base paints.

For the Stock view of the Base paint can size, the following options are available:



1.Description (can in use): An option to limit sellable items, can sizes. Can sizes with check box enabled are in use, by default all the can sizes set in InnovaTint LAB are in use.

2.Stock level check box: Check box to set the can size to be used. The  symbol is displayed if the stock level is negative. It is also displayed in the main screen when using this can size. See the picture on the next page.

2.Stock level: The current stock level.

3.Warning level: When the number of cans is below this value, the warning message about the stock level is displayed during the tinting process. The check box in the Stock level column needs to be enabled to edit this field.

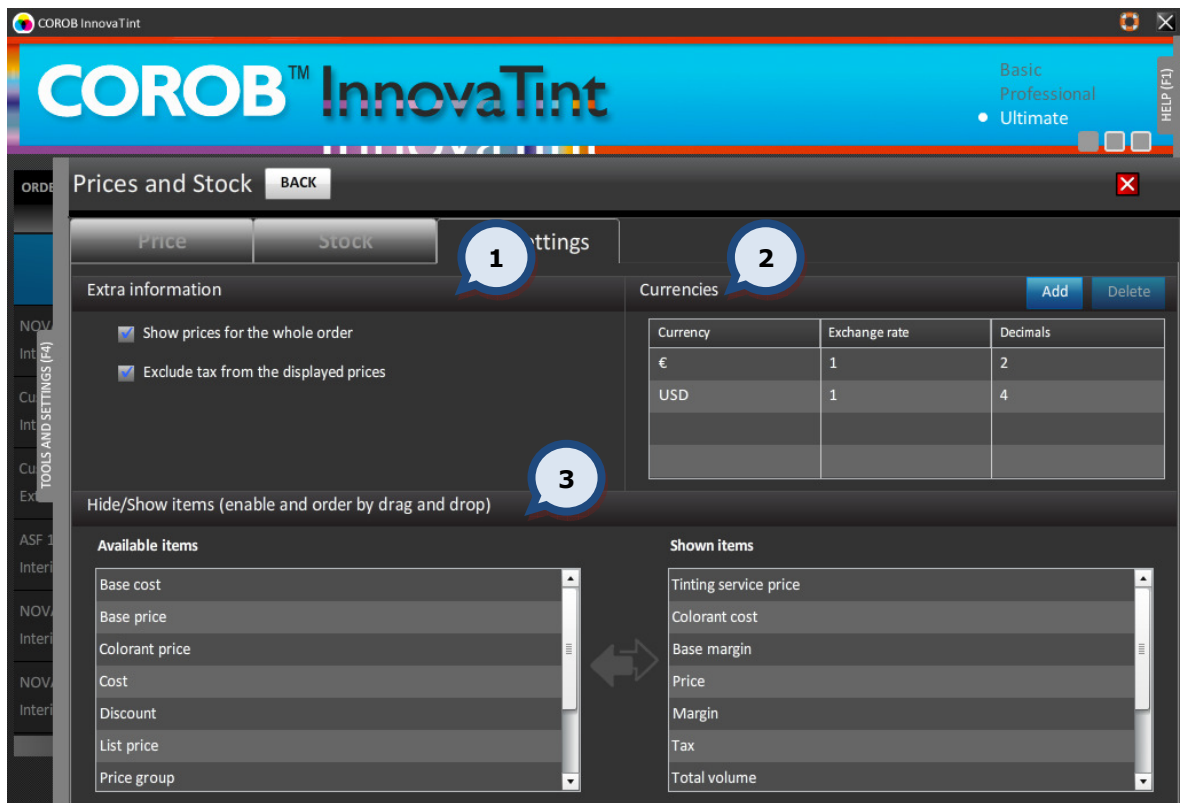
4.Add: The field to add cans into the stock. Use negative numbers to decrease the stock level. The check box in the Description column needs to be enabled to edit this field.

5.Save: The button to save changes to the warning level and to the stock level.

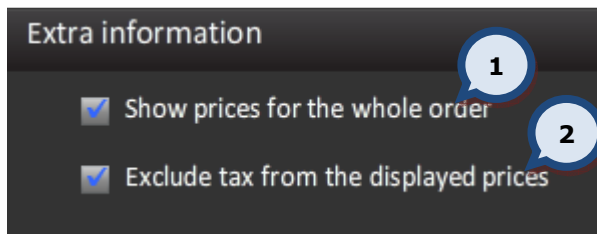
The screenshot displays the COROB InnovaTint software interface. At the top, the logo 'COROB™ InnovaTint' is visible, along with navigation options: 'Basic', 'Professional', and 'Ultimate' (selected). The main window is titled 'COROB InnovaTint' and shows an order management screen. The top bar includes 'ORDERS' with a 'New order (F2)' button, and order details: 'ORDER NUMBER: 10076 ORDER DATE: 10. lokakuuta 2012 8:17:29'. A central panel contains a 'Stock level warning symbol' (a speech bubble) pointing to the 'CAN SIZE' field, which is set to '4 l' and has a tooltip that reads 'Selected product is out of stock'. The 'COLOR' is 'NOVA' and the 'PRODUCT' is 'Exterior'. The 'QUANTITY TO TINT' is '4 l' and the 'BASE' is 'AA'. Below the main panel are buttons for 'SAVE AND TINT', 'SAVE ORDER', and 'DELETE ORDER'. A comment field at the bottom contains 'Comment: 4L | Low hiding'. On the right side, there is a 'COLOR PREVIEW' section with a 'Re-scale formula' button, and a 'LEVELS' section showing a bar chart of canister levels for various products: MT (59%), RT (59%), PT (60%), MM (64%), and XT (67%). The interface also features a sidebar on the left with an 'ORDERS' list and a vertical toolbar on the right with icons for 'COLORANT LEVELS (F4)', 'TOOLS AND SETTINGS (F4)', and 'PRODUCT INFO (F5)'. A 'HISTORY (F6)' button is located at the bottom left.

5.5.2. Info settings

In the **Info settings** under **Prices and Stock** there are three sections: **(1)** Extra information, **(2)** Currencies, and **(3)** Hide/Show items.



In the **Extra information** section, the following options are available:



- 1. Show prices for the whole order:** When the check box is enabled, the prices for the whole order are displayed in the extra info panel.
- 2. Exclude tax from the displayed prices:** When the check box is enabled, the tax is excluded from the displayed prices.

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

1 Currency	2 Exchange rate	3 Decimals
4 €	1	2
5 USD	1	4

1.Currency: Set of currencies in use

2.Exchange rate: A multiplier to convert default currency into secondary currency

3.Decimals: Number of decimals to be used

4.Default currency: Set in InnovaTint LAB, can't be changed.

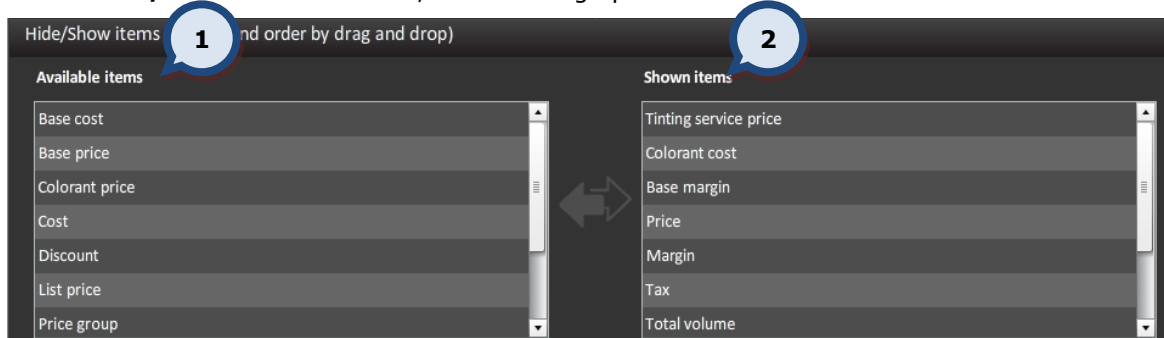
5.Secondary currency: If in use, prices shown on screen are direct multiplies of default currency.

6.Add: Add a new secondary currency

7.Delete: Delete selected secondary currency

Secondary currencies can be selected on the main screen, **see page 16.**

In the **Hide/Show items** section, the following options are available:



1. Available items: following items are possible to choose to be displayed in the info panel.

Base cost = BCOST if available, or BCOSTL * Base volume

Base price = BPRICE if available, or Base cost / (1-BMARGIN)

Base margin = Base price - Base cost

Colorant cost = \sum CCOST * Colorant volume

Colorant price = \sum CCOST * Colorant volume / (1- CMARGIN)

Tinting service price = Tinting fee (fixed amount)

Total colorant price = Total price of all colorants in formula

Cost = Base cost + colorant cost

List price = Base price + Price of tinting

Discount = -Discount rate * List price

Price = List price + Discount (Note: discount \leq 0)

Margin = Price - cost

Maximum retail price = maximum retail price (only visible on Info window if MRP set for the selected product/base/can)

Tax = Tax-inclusive prices are generally the above multiplied by (1 + TAX). If rounding is enabled, it is applied to the tax-inclusive price, and the price before tax, and margin, are calculated backwards from them.

Total volume = Total volume of tinted paint

Total weight = Total mass of tinted paint

Price per liter = Price / Total volume of tinted paint

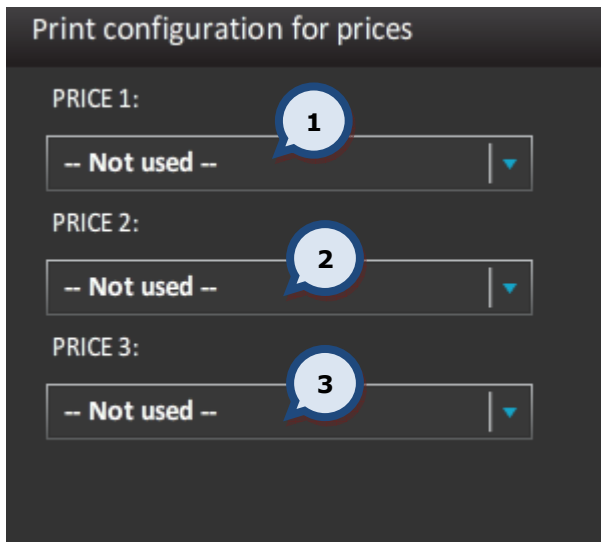
Price per kg = Price / Total mass of tinted paint

2. Selected items: Items that has been selected to the Info panel

NOTE: Items may be moved from box to another by dragging them to the desired place. Shown items has an option to arrange items any order, whereas Available items shows them always alphabetical order to ease up finding.

NOTE: If MRP is set and the above calculations would make List price including tax greater than MRP, List price is set to MRP and Margin is adjusted accordingly.

In the **Print configuration for prices** section is visible only if Anylabel label format in use, the following options are available:



1.PRICE 1: Item 1 to be printed into the label. Choices are listed below.

2.PRICE 2: Item 2 to be printed into the label. Choices are listed below.

3.PRICE 3: Item 3 to be printed. into the label. Choices are listed below.

Available choices:

- Base cost
- Base price
- Base margin
- Colorant cost
- Colorant price
- Tinting service price
- Total colorant price
- Cost
- List price
- Discount
- Price
- Margin
- Tax
- Total volume
- Total weight
- Price per litre
- Price per kg
- Price group

5.6. Dispenser information and commands

In the **Dispenser information and commands** section of the **Tools and settings** page, it is possible to run a command for the tinting machine. This section is active only, if the Corob tinting machine is in use or a UDCP connection to the tinting machine has been established (limited features available).

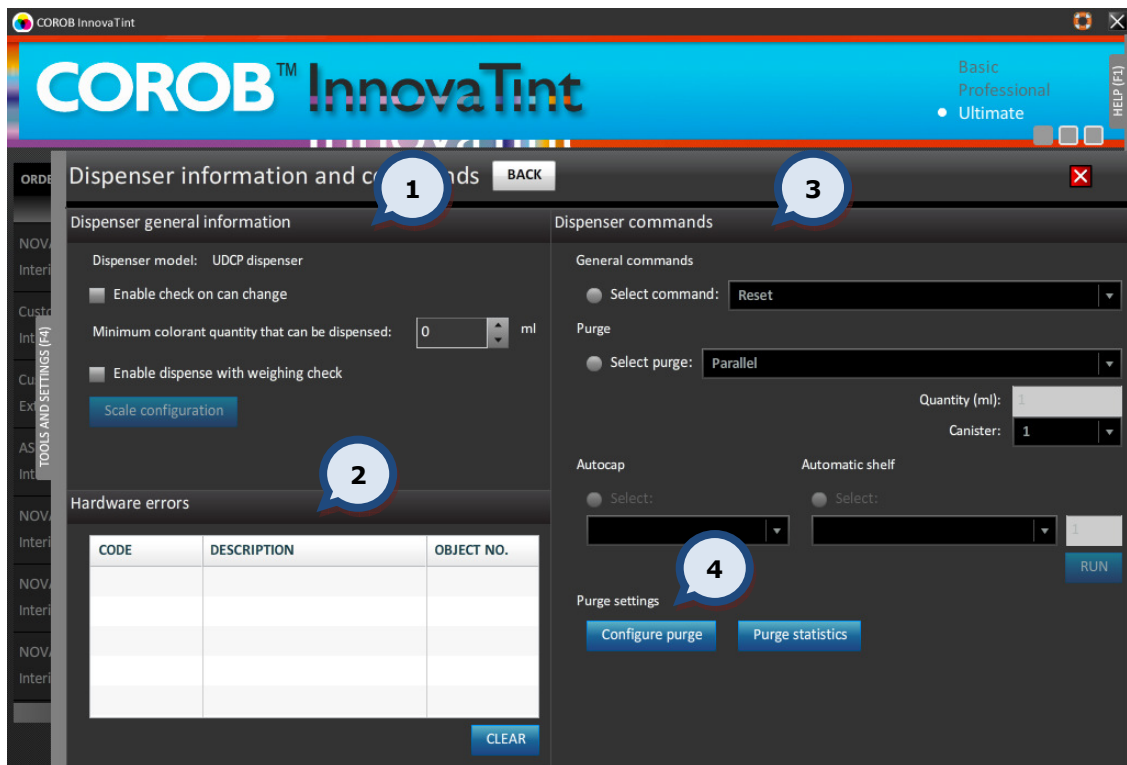


1.Dispenser model: This is defined in the CorobTech 5.5 program (display only).

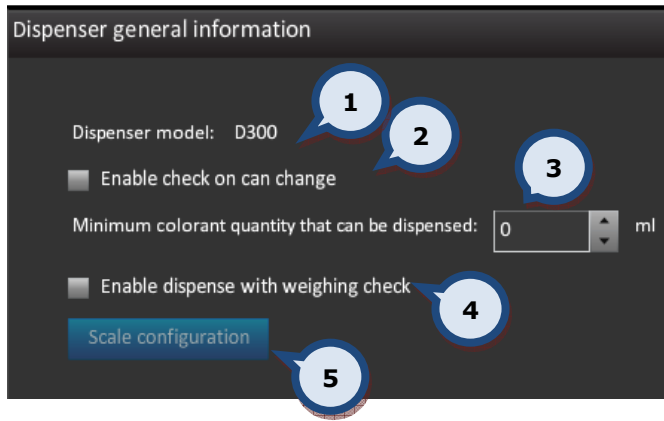
2.Dispenser commands: These commands depend on the model of the dispenser. Possible options: reset, initialization, punching, recirculation.

3.RUN: The button to execute a dispenser command.

On the **Dispenser information and commands > MORE...** page, it is possible to view general dispenser information, view the hardware error log, and run dispenser commands. On the page, there are four different sections: **(1)** Dispenser general information, **(2)** Hardware errors, **(3)** Dispenser commands, and **(4)** Purge settings.



In the **Dispenser general information** section, the following options are available:



1.Dispenser model: This is defined in the CorobTech 5.5 program (display only). In case of Corob Flex5xx-series, dispenser model is UDCP dispenser.

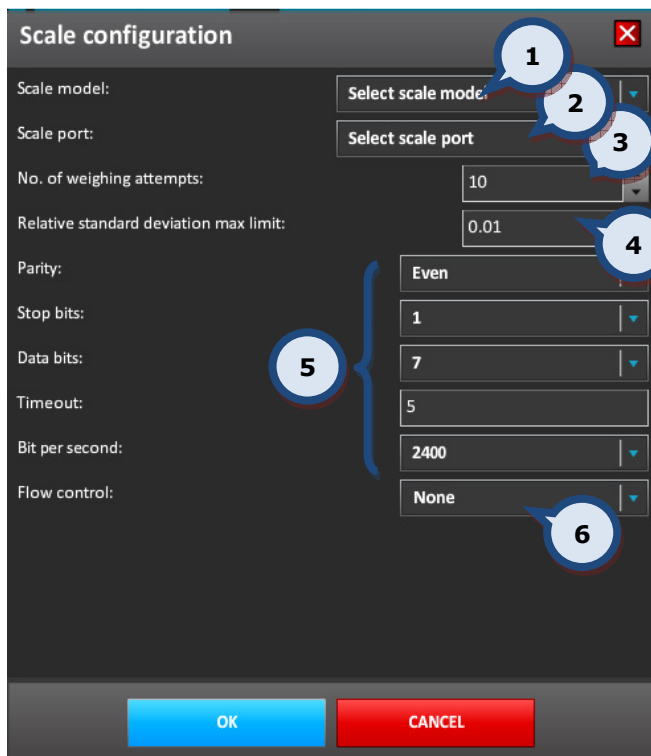
2.Enable check on can change: If the dispensing machine is equipped with the sensor for the paint can movement, enabling this option will check if the paint can has been removed after dispensing. If the paint can has not been removed from the dispensing machine the following warning message is displayed: "warning – the last dispensed can has not been removed"

3.Minimum colorant quantity that can be dispensed: Sets the smallest quality to be dispensed in milliliters. This value will prevent dispensing of too small amounts.

4.Enable dispense with weight check: When the check box is enabled, the tinting equipment will dispense the colorants one by one, and after each colorant has been dispensed the dispensed amount is checked with a scale. Also the scale configuration button is activated.

5.Scale configuration: The button to configure a scale. This option is active only if Enable dispense with weight check (4) check box is enabled.

When the Scale configuration button has been clicked, the following window appears. The following options are available:



1.Scale model: The drop down list to select a scale model.

2.Scale port: The drop down list to select the port to which the scale is to be attached.

3.No. of weighing attempts: The selector field to set the number of attempts made.

4.Relative standard deviation max limit: The selector field to set the maximum allowed error during weighing.

5.Communication settings: These settings are dependent on the scale type used. Please refer to the scale's manual for the correct settings.

Parity

Stop bits

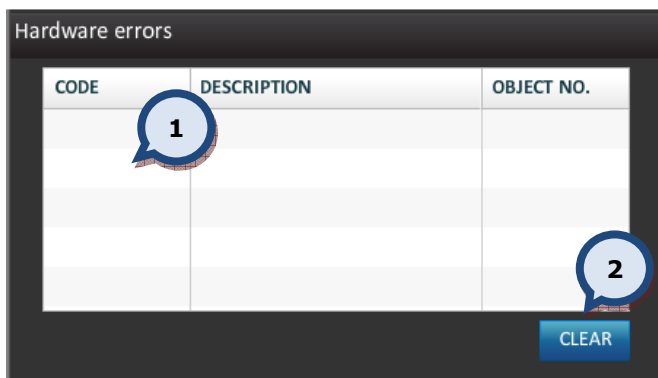
Data bits

Timeout

Bit per second

6.Flow control: Hardware / Software.

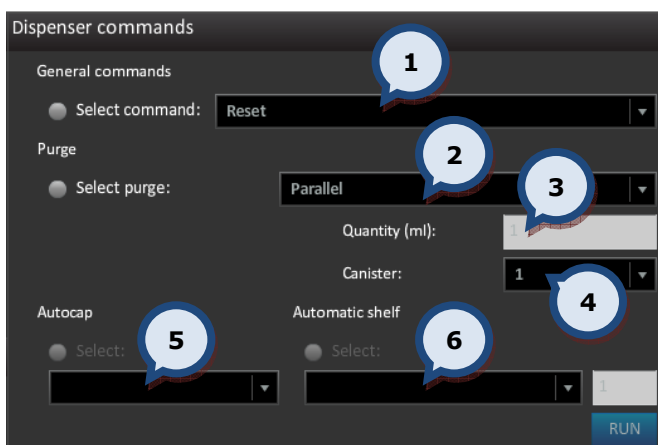
In the **Hardware errors** section, the following options are available:



1. Hardware errors: If the dispensing machine displays an error, error codes are listed in this table with descriptions and object numbers. This information can be given to the service personnel.

2. Clear: The button to clear the error log.

On the **Dispenser commands** section, the following options are available:



1. Select command: The radio button and the drop down list to select a general command. These commands depend on the model of the dispenser. Possible options are: reset, initialization and country specific commands.

2. Select purge: The radio button and the drop down list to select a purge and purge type. The purge sequence can be selected to be either done via:

Parallel = Purge all canisters at the same time

Sequential = Purge every canister separately

Canister = Purge only a single canister

3. Quantity: The volume of purge in milliliters

4. Canister: The canister number on which the purge will be done (valid only when the canister is selected in item (2)).

5. Autocap: The automatic cap placement on top of the dispensing nozzles. Options are:

- **Open** the dispensing nozzles are left uncovered.

- **Closed** The automatic cap covers the dispensing nozzles and prevents the nozzles from drying.

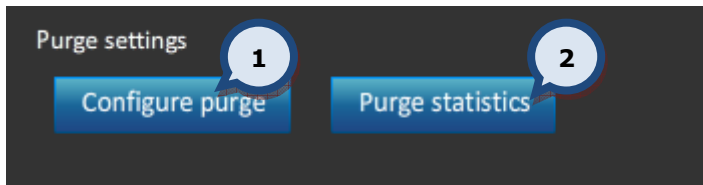
6. Automatic shelf: The automatic shelf repositioning after tinting. Options:

- **Move up** after dispensing the shelf moves up

- **Move down** after dispensing the shelf moves down

- **Move to mm** after dispensing the shelf moves to a predefined position.

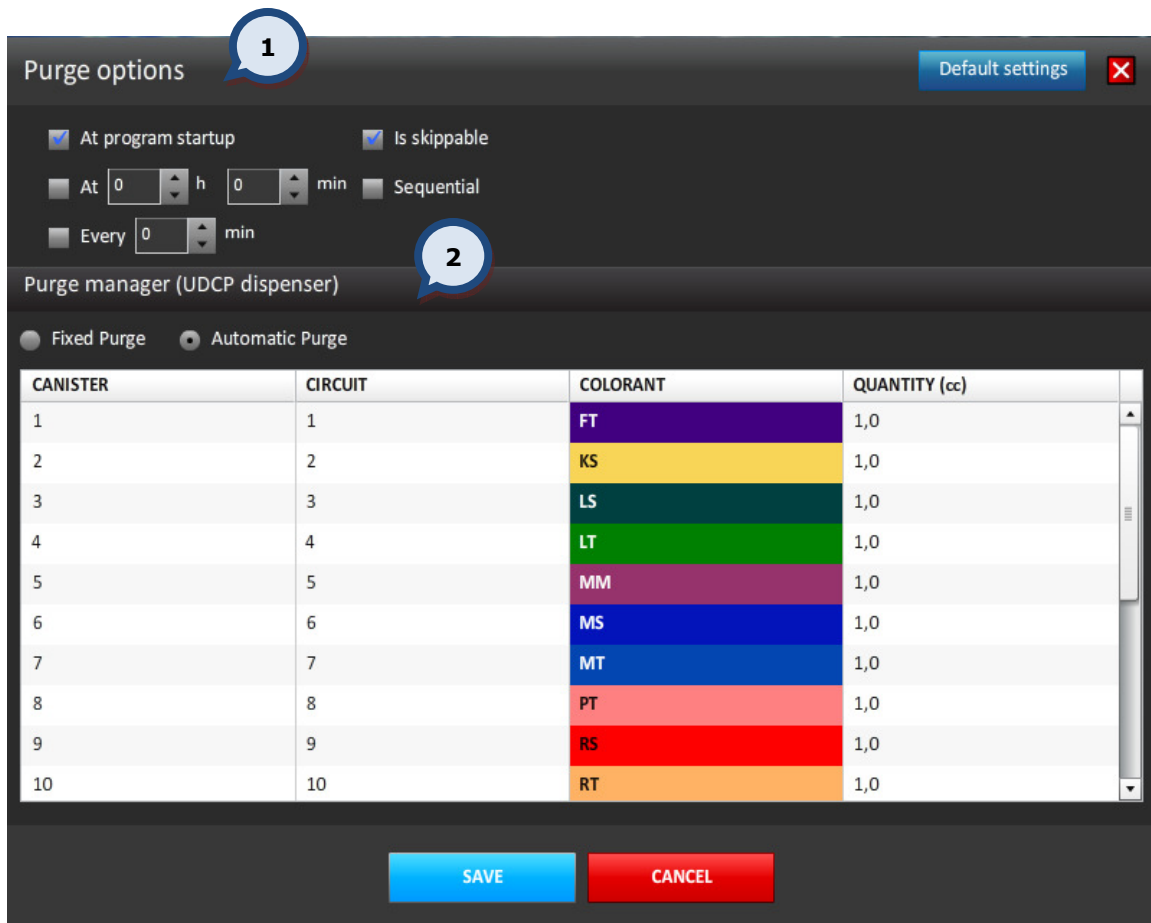
In the **Purge options** section, the following options are available:



1. Configure purge: To configure purge options.

2. Purge statistics: to view purge statistics.

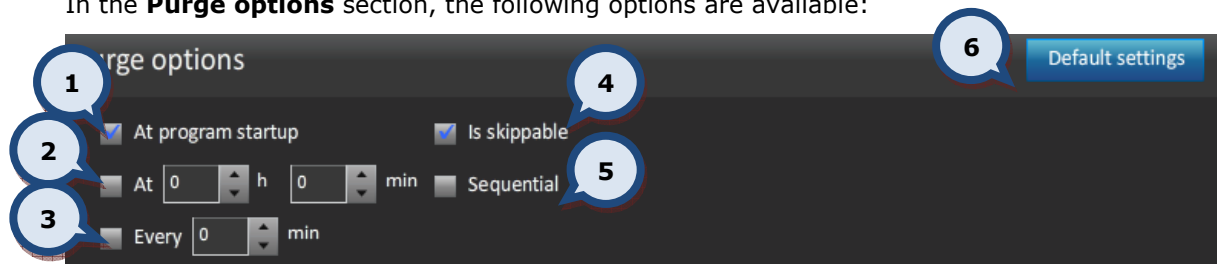
When the configure purge has been clicked following window appears. The following options are available:



1. Purge options: To setup basic purge functionalities

2. Purge manager: to setup detailed purge rules

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



1. At program startup: When the check box is enabled, the purge is done every time when the program is started.

2. At: When the check box is enabled the purge request is made at the selected hour in the related box (e.g. 08:36).

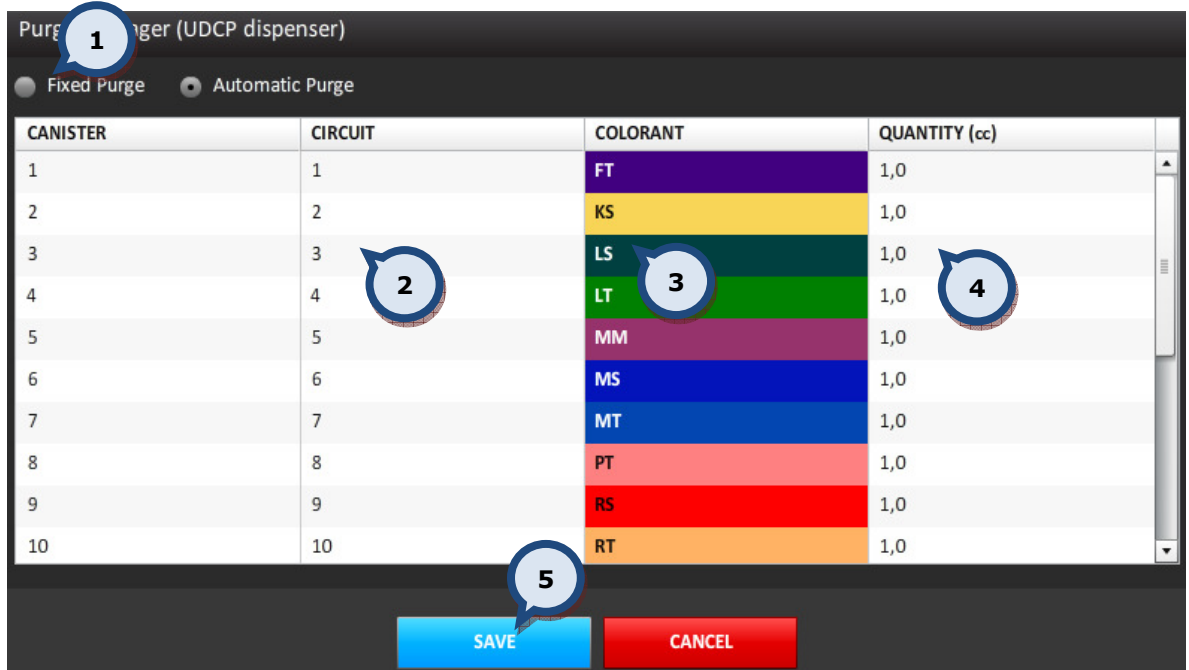
3. Every: When the check box is enabled the purge request is made after the number of minutes that are indicated in the related box (e.g. every 20 minutes).

4. Is skippable: When the check box is enabled, the purge can be aborted from the pop-up window.

5. Sequential: When the check box is enabled, the colorants are dispensed circuit after circuit, otherwise colorants are dispensed simultaneously. This option is available only for the fixed purge.

6. Default settings: The button to reset all changes.

In the **Purge manager** section, the following options are available:



1.Fixed purge/Automatic purge: It is possible to select either a Fixed purge or an automatic purge.

When the **Fixed purge** radio button is selected it is possible to configure a specific quantity to be purged, for every circuit of the dispenser. The client application (es: CPSDriver) decides when to purge the amounts.

When the **Automatic purge** radio button is selected, it is possible to configure the behavior of the purge operation and decide when and what circuit is to be purged (following the planned rules).

2.CIRCUIT: The number of circuits in the dispenser.

3.COLORANT: The colorant code with the RGB representation of it.

4.QUANTITY: The volume to be used when purging each colorant (circuit).

5.Save: The button to save all of the settings, and close the window.

In the **Purge manager** section when the **Automatic purge** option has been selected (1), the additional options become available:

Purge manager (UDCP dispenser)

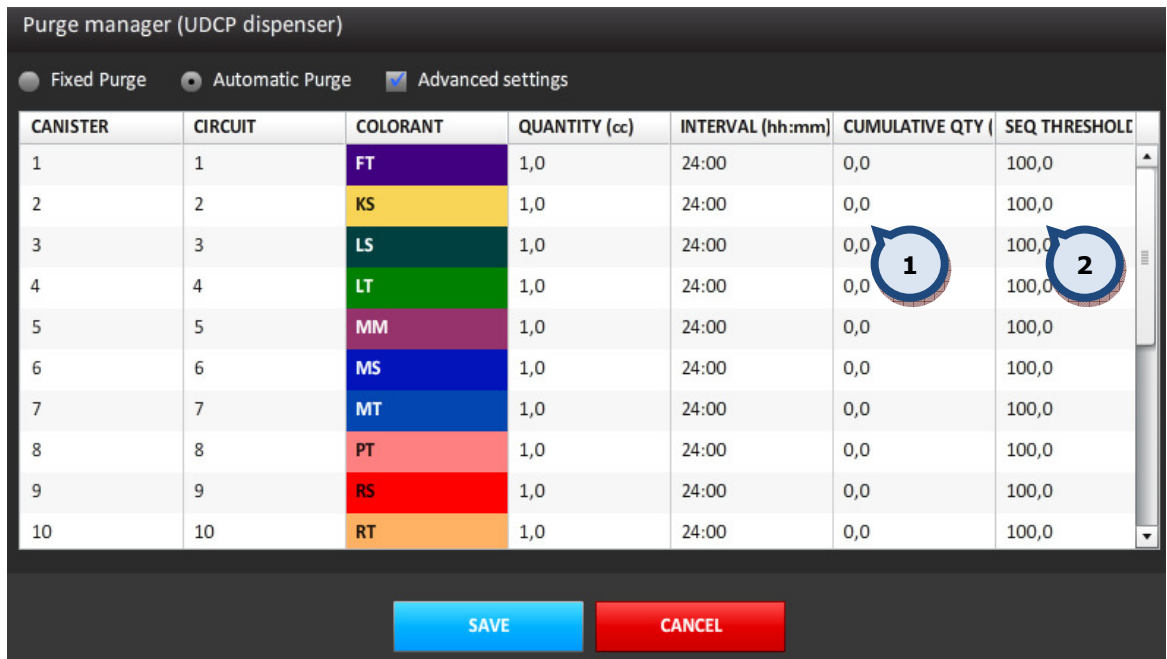
Fixed Purge
 Automatic Purge
 Advanced settings

CANISTER	CIRCUIT	COLORANT	QUANTITY (cc)	INTERVAL (hh:mm)
1	1	FT	1,0	24:00
2	2	KS	1,0	24:00
3	3	LS	1,0	24:00
4	4	LT	1,0	24:00
5	5	MM	1,0	24:00
6	6	MS	1,0	24:00
7	7	MT	1,0	24:00
8	8	PT	1,0	24:00
9	9	RS	1,0	24:00
10	10	RT	1,0	24:00

2.Advanced settings: This is an extension to the Advanced purge in that it allows the possibility to configure the purge behavior in more detail, so that the automatic purge operation becomes more efficient. See further details about this option on the next page.

3.INTERVAL: The time interval in hour/minutes (h:m) in which the purge is executed.

In the **Purge manager** section when the **Automatic purge** option has been selected, and the **Advance settings...** check box enabled, then additional options become available:



1.CUMULATIVE QTY: The default value for this column is 0.0. A different value means that if the **Interval** period specifies that the sum of all quantities dispensed for that colorant is higher than the value set in the **Cumulative Quantity** field, then no purge is needed. Otherwise, a purge is required and the quantity to be dispensed is the result of the difference between the set quantity in the cumulative rule and the quantity dispensed in the elapsed time (**Quantity** field).

2.SEQ TRESHOLD: The default value for this column is 0.0, and is the quantity expressed in milliliters after which the purge will be performed sequentially.

When the purge statistics has been clicked following window appears. The following options are available:

The screenshot shows a window titled "Purge statistics" with a dark theme. At the top right, there are date pickers for "From: 01/12/2012" and "To: 16/12/2012", and an "Export" button. Below the date pickers are two tabs: "Overview" (selected) and "Detail". A table with 17 columns (Date, FT, KS, LS, LT, MS, MT, PT, RS, RT, ST, TT, US, VT, XT, ZT) and 17 rows (including a Total row) is displayed. The table data is as follows:

Date	FT	KS	LS	LT	MS	MT	PT	RS	RT	ST	TT	US	VT	XT	ZT
1.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.12.2012	1,0	11,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	51,0	1,0	1,0	1,0	1,0	1,0
4.12.2012	64,0	33,0	14,0	14,0	21,0	16,8	23,8	21,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0
5.12.2012	21,0	11,0	2,0	3,0	2,5	2,2	2,7	2,5	2,0	2,0	2,0	2,0	2,0	2,0	2,0
6.12.2012	41,0	21,0	23,0	3,0	4,0	3,4	4,4	4,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
7.12.2012	1,0	1,0	1,0	0	0	0	0	0	0	0	0	0	0	0	0
8.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.12.2012	32,0	19,0	10,0	10,0	10,5	10,2	10,7	10,5	10,0	10,0	10,0	10,0	10,0	14,0	16,0
10.12.2012	1,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16.12.2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	161,0	96,0	51,0	31,0	39,0	33,6	42,6	39,0	30,0	80,0	30,0	30,0	30,0	34,0	36,0

At the bottom of the window is a "Close" button. Callouts 1-5 point to the Overview tab, the table, the date pickers, the Export button, and the Close button respectively.

- 1.Overview:** Overview shows table view of all the colorants and their purge history within the selected time interval.
- 2.Detail:** Detail view allows to monitor individual colorant purge history
- 3.Time interval:** to set the analyze period
- 4.Export:** to export selected information
- 5.Close:** to close the view

When the Detail-tab has been selected following view will be displayed.

The screenshot shows the 'Purge statistics' window with the 'Detail' tab selected. The window title is 'Purge statistics' and it includes a date range filter from '01/12/2012' to '16/12/2012' and an 'Export' button. The 'Overview' tab shows a list of colorants and their total purged amounts. The 'Detail' tab shows a detailed view for colorant 'FT', listing individual purge events with their dates and times.

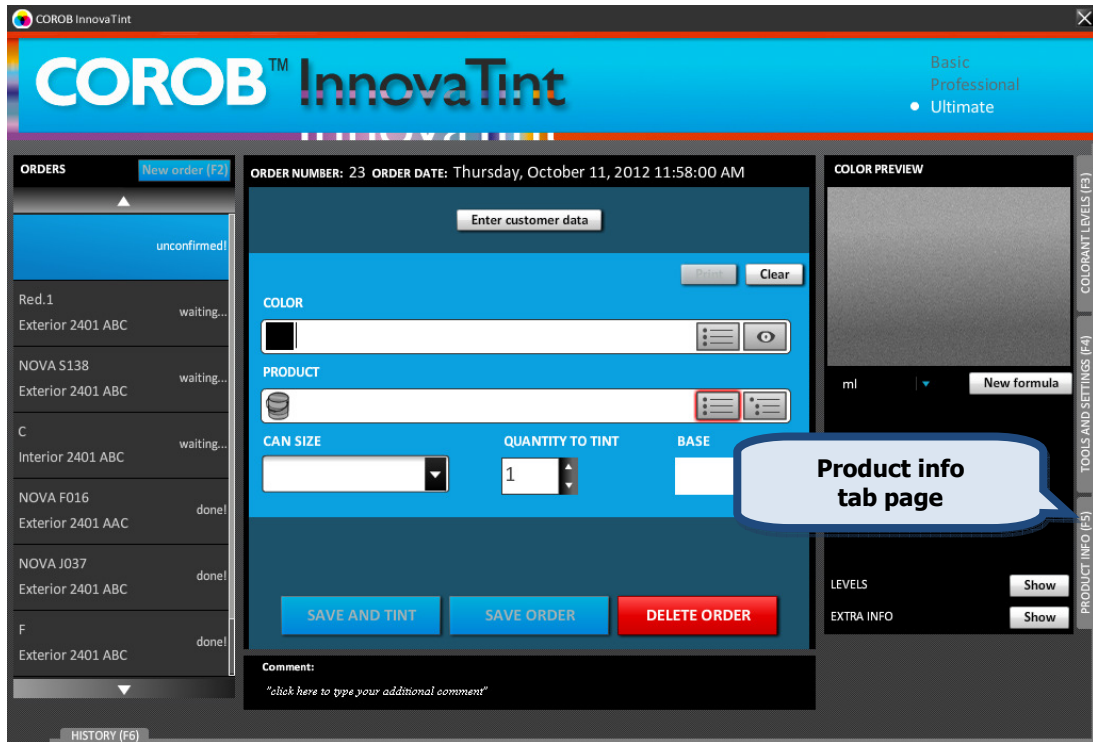
Colorant	Purged amount [ml]
FT	51,0
KS	
LS	31,0
LT	31,0
MM	39,0
MS	33,6
MT	42,6
PT	39,0
RS	30,0
RT	80,0
ST	30,0
TT	30,0
US	30,0
VT	30,0
XT	34,0
ZT	36,0

Date	Purged amount [ml]
6.12.2012	
7.12.2012	
9.12.2012 17:01	1,0
9.12.2012 17:53	1,0
9.12.2012 17:54	1,0
9.12.2012 18:02	20,0
9.12.2012 21:27	1,0
9.12.2012 21:31	1,0
9.12.2012 21:35	1,0
9.12.2012 21:42	1,0
9.12.2012 21:45	1,0
9.12.2012 21:55	1,0
9.12.2012 21:59	1,0
9.12.2012 22:13	1,0
9.12.2012 22:39	1,0
10.12.2012 23:04	1,0

- 1. Colorant:** Colorant under the evaluation
- 2. Purged amount (ml):** Total purged amount within the given time frame
- 3. Date:** Date and time of individual purge's
- 4. Purged amount (ml):** Amount of purge

6. Product info

On the **PRODUCT INFO** tab page it is possible to view the product info for products in use. Access can be made by clicking on the **PRODUCT INFO** text on the right hand side of the screen, or by clicking on the **F5** function button on the keyboard.

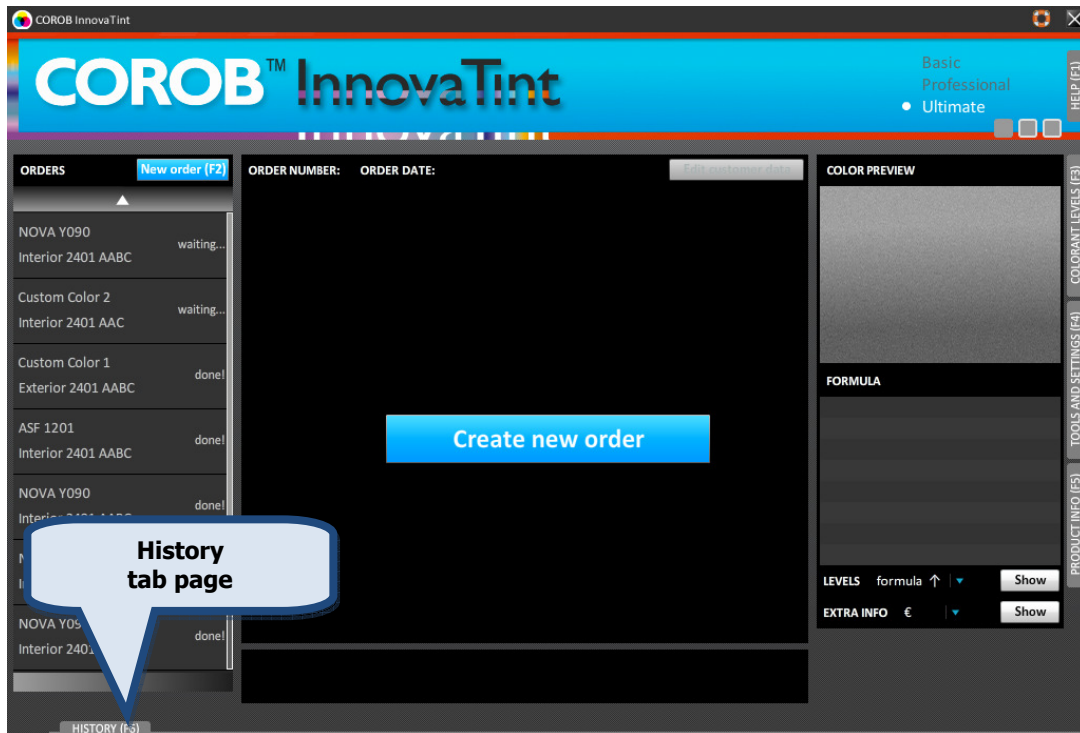


This functionality is set up in the **InnovaTint LAB** software.

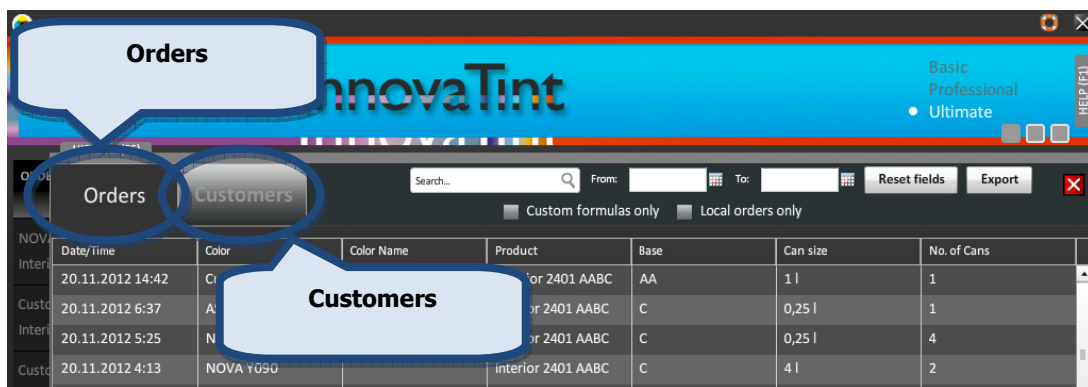


7. History

On the **HISTORY** tab page, it is possible to view tinting history as well as re-tint previously dispensed orders. Access can be made by clicking on the **HISTORY** text at the bottom of the screen, or by clicking on the **F6** function button on the keyboard.

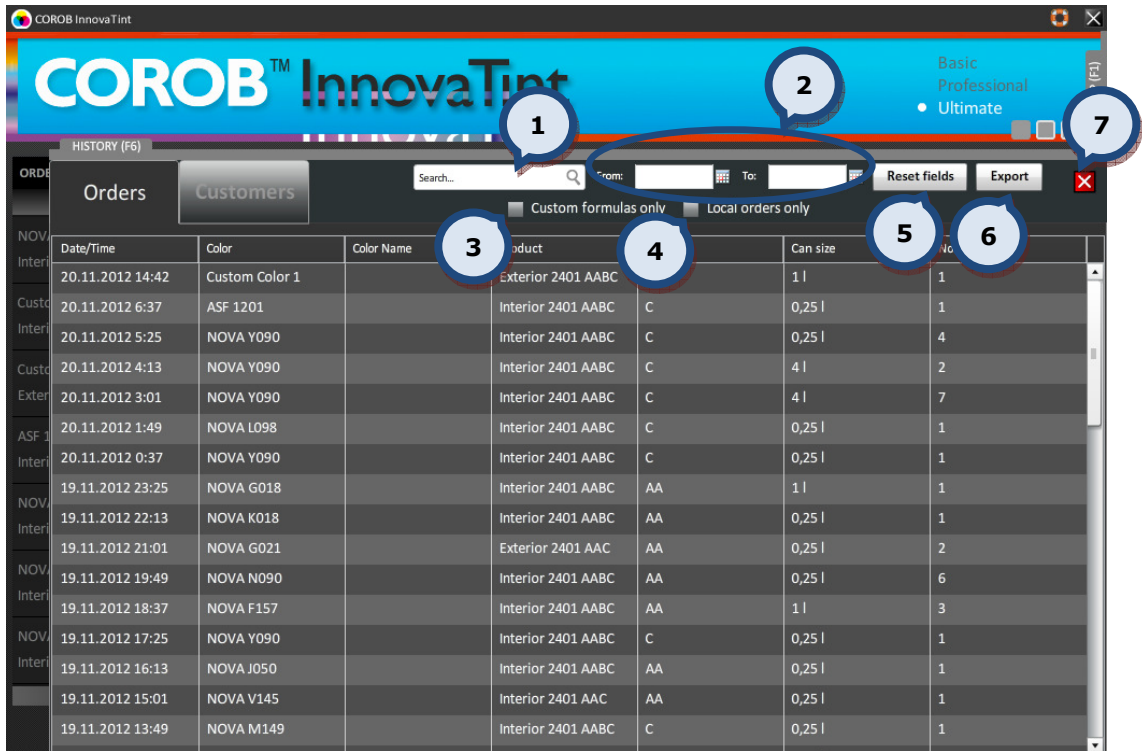


The history tab page has two views: Orders and Customers.



7.1. Orders view

Here it is possible to view the whole list of dispensed orders, or then use the following options to narrow the search result:



1.Search: The text field to filter the search results. In this field it is possible to search by the color code, color name, product code, product name, or by base code. The result's table can be sorted by clicking on the column header.

2. From and To: The date fields to specify certain period of time to use as filter criteria. See the next page for further instructions about this function.

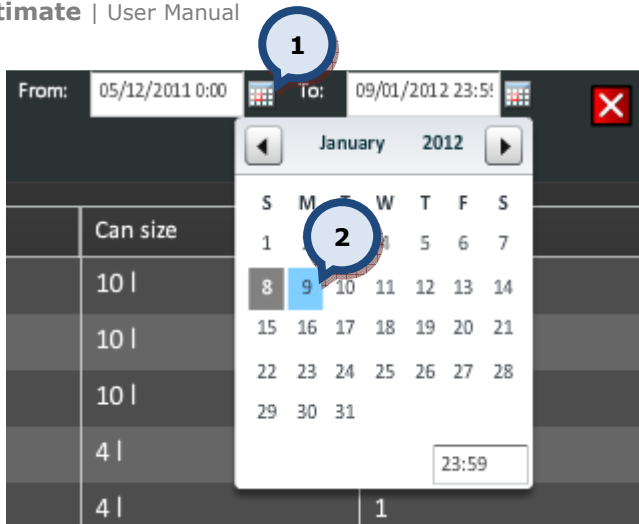
3.Custom formulas only: When the check box is enabled the search is limited to only custom formulas.

4.Local orders only: When the check box is enabled the search is limited to only orders within the local database.


5.Reset fields: The button to reset all selections.

6.Export: The button to save the search result into a text file.

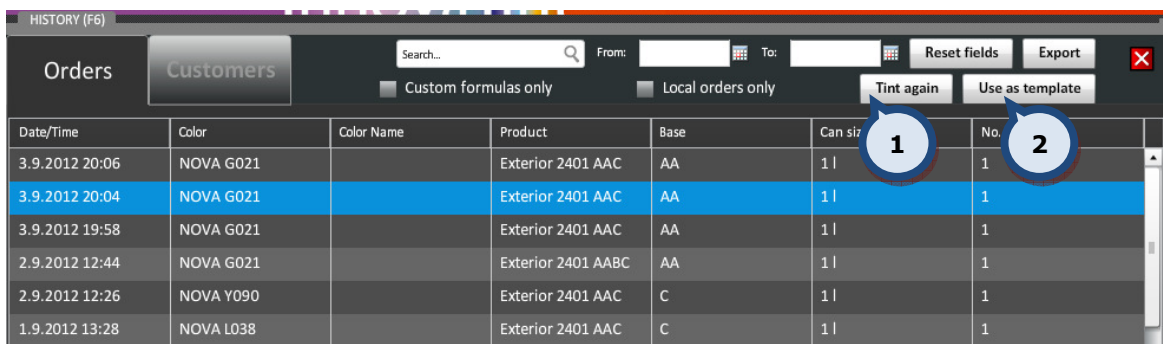
7. The button to exit this view.



To **select the time period** as a search criteria:

1. Click on the  button.
2. Select the **date** from the window.

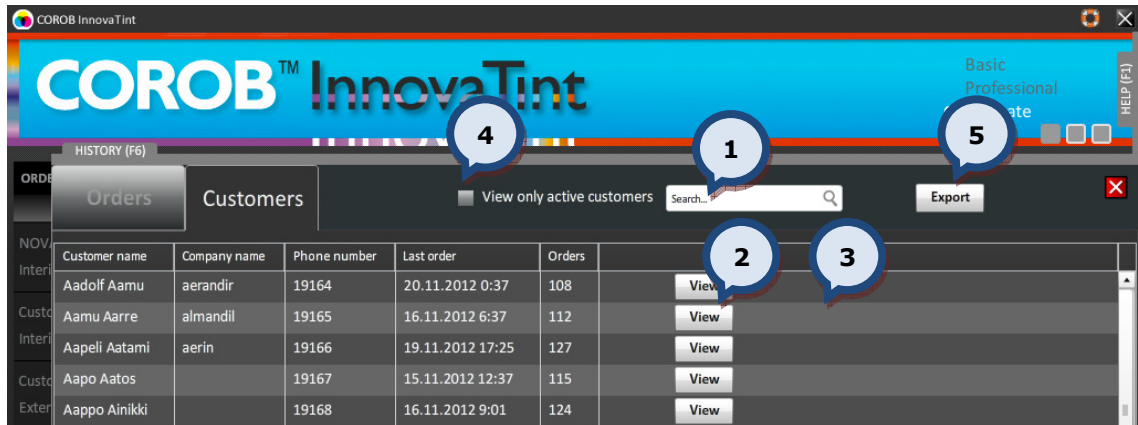
When an order has been selected an order, it is possible to:



1. **Tint again** the same order.
2. Use this order **as a template**.

7.2. Customers view

On the Customers view it is possible to see all custom formulas that have been dispensed.



1.Search the customer by name.

2.View: To view the dispensing history of a customer.

3.Delete: Delete an item within the list (visible only if customer doesn't have any orders).

4.View only active customers: When the check box is enabled, only the customers with at least one order made are displayed in the list.

5.Export: The button to save the list into the text file.

When the View buttons has been clicked:



1. Search order by name, code, date, etc.

2. Select order.

When an order is selected:

3. Tint again the same order.

4. Use this order as a template.

5. View the formula details.

6. Go back to the previous window.

7. Go back to the main page.

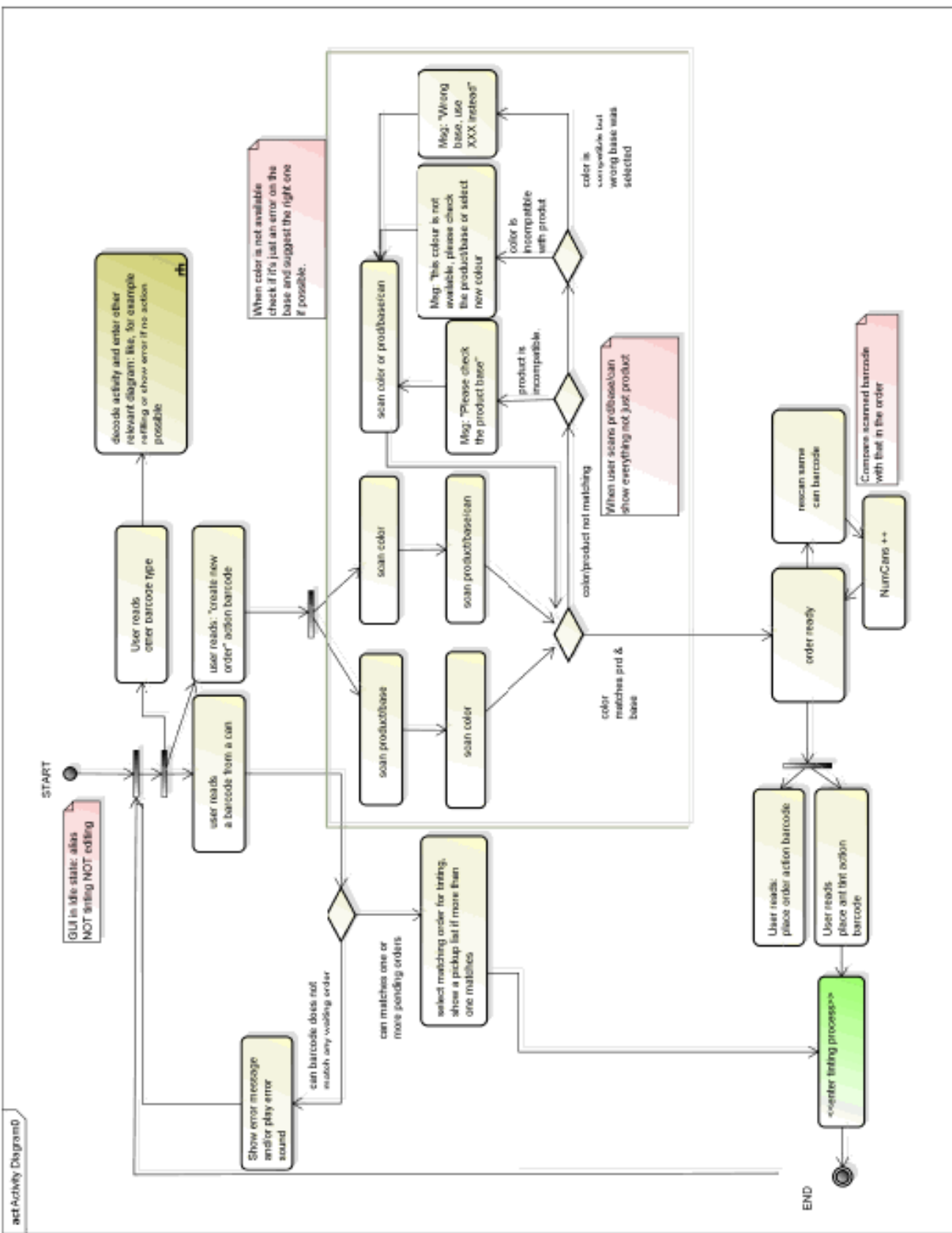
8. Bar code driven tinting

Bar codes can be used to operate the InnovaTint software. With the bar code function it is possible to select the base paint, the color, create a new order and finally dispense the colorants into the paint can.

This functionality is set up in the **InnovaTint LAB** software. The flow chart on the next page illustrates the bar code driven tinting process.

Activity Diagram0

2011/04/18



9. APPENDIX 1

Base paint

Base paint is paint or other resin intended to be tinted using colorants. A product may be available as different base paints, designated with codes. In the InnovaTint window the base paint code is shown below the product name.

Can size

Examples of can sizes for paint:

250ml	(0,25 l)
1 000ml	(1 l)
3 000ml	(3 l)
10 000ml	(10 l)
20 000ml	(20 l)

The tinting system and the dispensing machine will determine the can sizes to be used.

Color codes

A Color code is a string of letters and numbers, e.g. RAL 3000, utilized by the InnovaTint program to identify each color and to find the formula in the formula database.

Colorant

Colorants are stable "pigment concentrates" whose color, color strength and rheology are controlled. They are manufactured according to rigid specifications, which guarantee the high Color accuracy time after time.

Dispensing unit

In a dispensing machine the volume of colorant to be dispensed is usually defined in dispensing units or in milliliter (ml). The unit to be used is defined by the tinting system and the dispensing machine. Typically the unit is a form of fluid ounce divided into a set of fractions.

Formula

A formula in the InnovaTint program contains the following information:

Color Code (the color can also have a name(s))

Base paint code

Colorant code and volume.

A formula can have a maximum of 8 different colorants displayed at same time

Formula database

All Color formulas are stored in the main database. The InnovaTint program will automatically group the formulae according to various criteria.

Basic formulae: This group contains the formulae delivered with the program package, and they are stored into the Main database. It is not possible to edit these formulae

User's formulae: This is the group in which the customers own Color formulas are stored via a

local database. These formulae can only be searched via the History tab

Product

In InnovaTint, a product typically means a brand of paint. See also Base paint.

10. APPENDIX 2

Supported spectrophotometers for InnovaTint

BYK-Gardner Spectro Guide (45/0)	Datascolor Textflash 3880
BYK-Gardner Spectro Guide (d/8)	Datascolor Textflash 3881
Chroma Sensor 3 (45/0)	Datascolor 3890
Chroma Sensor 3 (d/8)	Datascolor Uniflash
Chroma Sensor 45	Dataflash 100
Chroma Sensor 5	Dataflash 110
Datascolor 110	Dataflash 2000
Datascolor 110P	Dataflash 250 RS
Datascolor 245	Dataflash 80
Datascolor 400	HunterLab LabScan XE
Datascolor 550	HunterLab UltraScan XE
Datascolor 600	Macbeth 2020
Datascolor 650	Macbeth 2020+
Datascolor CHECK	Macbeth 2025
Datascolor Elrepho	MACBETH COLOR-EYE 2145
Datascolor Elrepho 3000	MACBETH COLOR-EYE 3000
Datascolor Elrepho 450	MACBETH COLOR-EYE 7000
Datascolor M2009	MACBETH COLOR-EYE 7000A
Datascolor Mercury	MCS500: DC/Zeiss 45
Datascolor Microflash 200d	Minolta CM-3700d
Datascolor Microflash 45 IR	Minolta CM-503c
Datascolor Microflash 45	Minolta CM-503i
Datascolor Mixflash	Minolta CM-508c
Datascolor Simulus 2000 ++	Minolta CM-508d
Datascolor Spectraflash 300	Minolta CM-508i
Datascolor Spectraflash 300uv	Minolta CM-512 m3
Datascolor Spectraflash 350-X	Minolta CM-525i
Datascolor Spectraflash 450	X-Rite CF57
Datascolor Spectraflash 450-X	X-Rite CF58
Datascolor Spectraflash 500	X-Rite CFS58
Datascolor Spectraflash 600	X-Rite CFS57
Datascolor Spectraflash 600+	X Rite Ci51/Ci52
Datascolor Spectraflash 600-X	X-Rite Color i7
Datascolor Spectraflash 650-X	X-Rite RM400
Datascolor Textflash 2000	

11. APPENDIX 3

The language options in the InnovaTint program.

Bulgarian
Chinese simplified
Chinese traditional
Croatian
Czech
Danish
Dutch
English (American English)
English_UK (UK English)
Finnish
French
German
Greek
Hebrew
Hungarian
Indonesian
Italian
Japanese
Korean
Malesian
Norwegian
Polish
Portuguese
Romanian
Russian
Serbian
Slovak
Spanish
Swedish
Thai
Turkish
Vietnamese

12. APPENDIX 4



EasyPrint

(version 0.2.4)

User Manual

From:

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General

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(Reference software version EasyPrint 0.2.4)

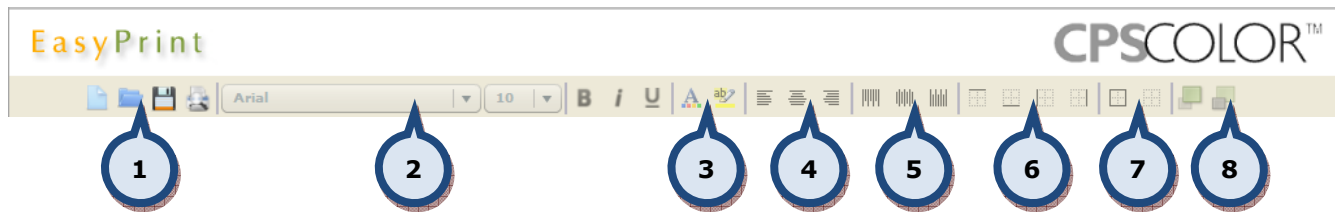
Introduction

EasyPrint software add-on replaces previous Anylabel labelling software. It is used to make and edit new labels within InnovaTint software family. Main functionalities of the software are;

- Label creation and design (any size)
- Label edits
- Retrieve order information from the database
- Place picture(s) to the label
- Create barcodes, including 2D and QR codes, and define their content

Navigation in the software

Navigation in the software is divided to three areas; main header for content design and appearance.



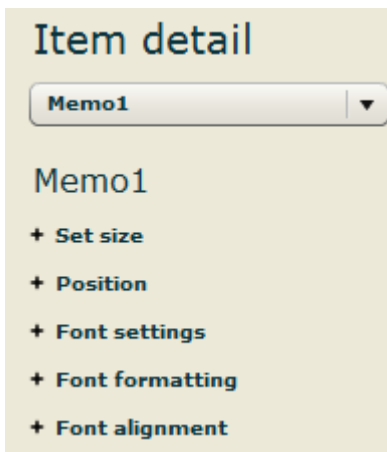
1. Label options; Create, Edit, Save and Preview
2. Font options; font type, size, bold, italic and underlined
3. Font characteristics; font color and –background color
4. Text alignment; left, middle and right
5. Text alignment; top, centre and bottom
6. Add line; top, bottom, left and right
7. Add line; surround component and clear component line properties
8. Set component order; move front and back

Left side to select item type, see **Available item types** for more details.

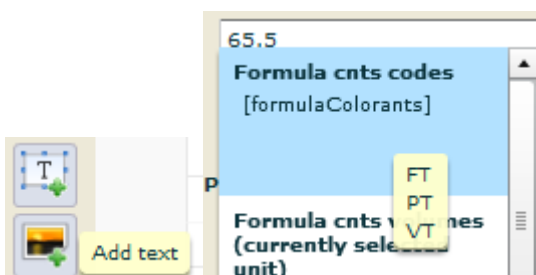


1. Select item
2. Zoom
3. Add Text-component
4. Add picture
5. Add line
6. Add rectangle
7. Add circle / ellipse
8. Add barcode
9. Add 2D barcode

And right side to define content to the item and its details.



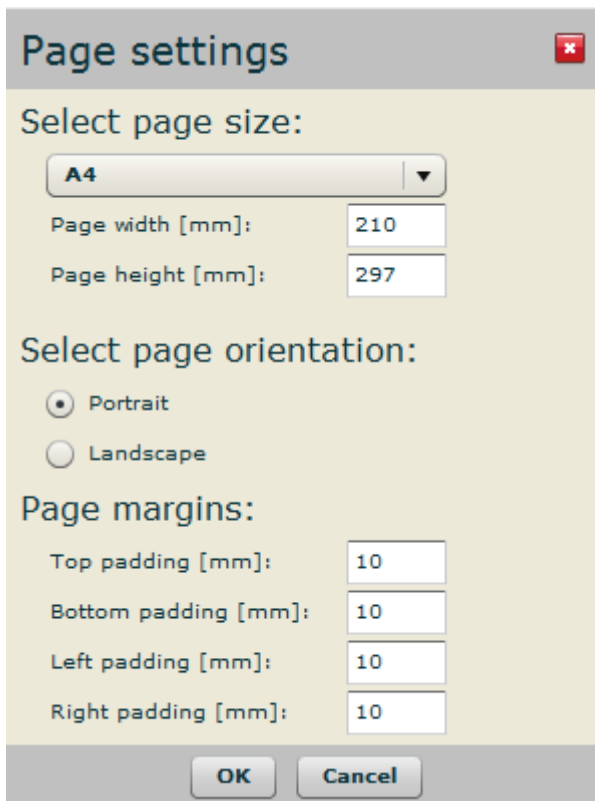
Icons on the screen come with "tool tips" that is shown, if mouse pointer kept over the icon. The same is true also for Text system variables to display example cases of their use, **see custom text / system variable**.




Getting started

New label

A new label can be created at the program start up



or alternatively by clicking  -icon on the header row or select **new** from the dropdown menu.



Possible settings for the label are:

The screenshot shows a 'Page settings' dialog box with the following elements and callouts:

- 1:** A dropdown menu for 'Select page size:' currently showing 'A4'.
- 2:** Radio buttons for 'Select page orientation:' with 'Portrait' selected.
- 3:** Input fields for 'Page margins:' with '10' entered for Top, Bottom, Left, and Right padding.
- 4:** The 'OK' button.
- 5:** The 'Cancel' button.

1. Label size selection. EasyPrint has multiple preconfigured label sizes to choose from. It is also possible to create custom size. Width and height must be given.
2. Set the label orientation
3. Set margins
4. OK to approve new label format
5. Cancel to open EasyPrint software without preset label canvas

When a new label is created possible content items can be moved into the canvas and label can be designed into its final format. See more information on the **available item types -section**.

Label size and margin can always be adjusted on the right side panel under the **page settings**.

Page settings

- Page settings

Page size:
 ▼

Page orientation:
 Portrait
 Landscape

Page width [mm]:

Page height [mm]:

Padding top [mm]:

Padding bottom [mm]:

Padding left [mm]:

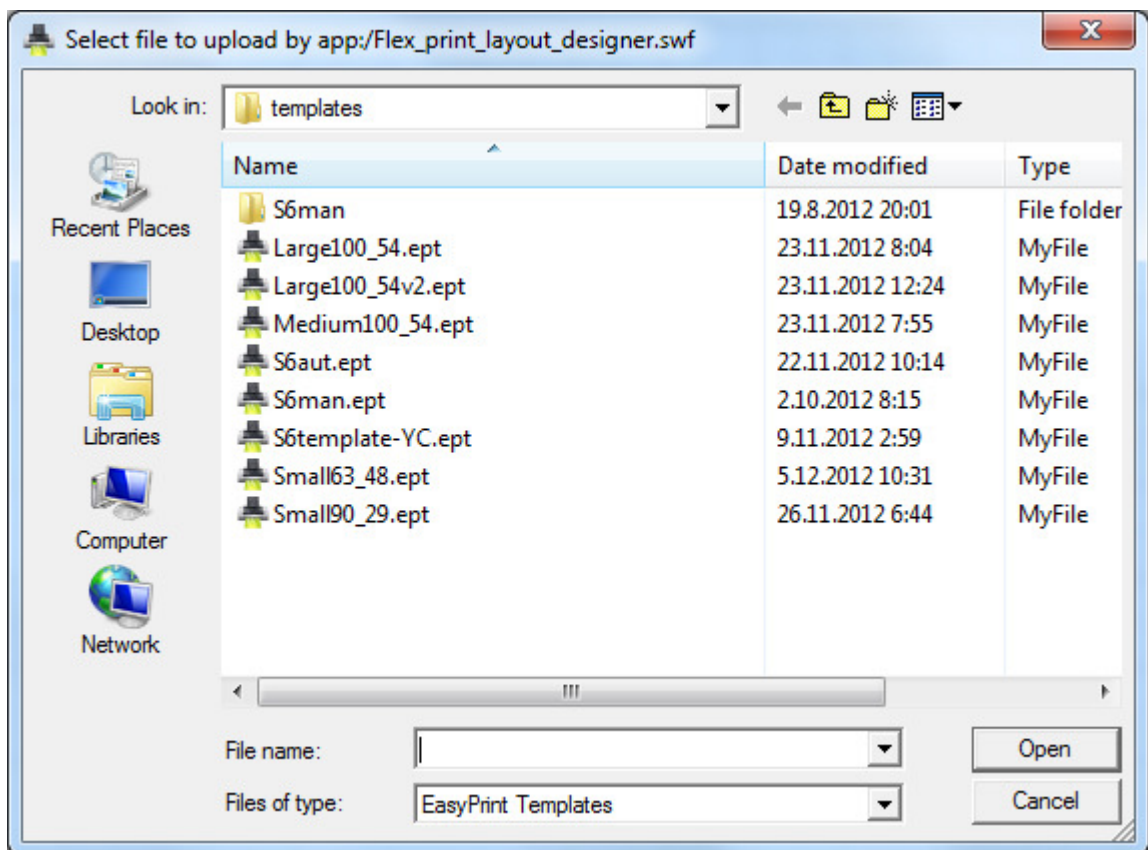
Padding right [mm]:

Edit label

To edit a label click on  -icon or alternatively select **Open** from the dropdown menu.



A window will be displayed where to choose from available templates



*.ept files (EasyPrint templates) are by default saved under c:\user\easyprint\templates.

Select template and click open. Template will be opened for EasyPrint to be edited.


Save label

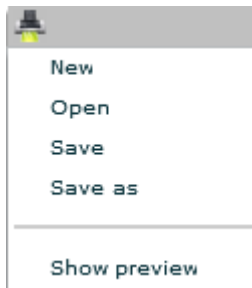
New or edited labels can be saved by clicking -icon or alternatively select **Save or Save as** from the dropdown menu.



Save will overwrite previous version (if editing) and **Save as** allows to rename edited version. In both cases default location for the label is c:\user\easyprint\templates.

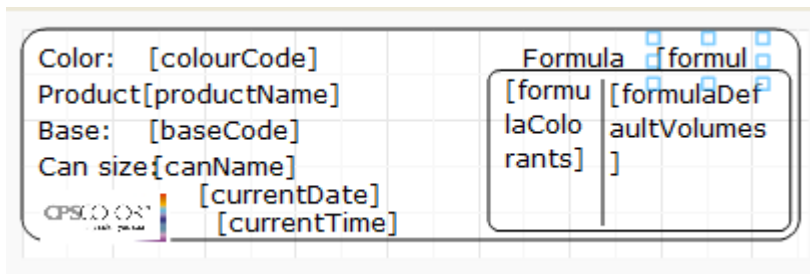
Preview label

To preview label click on  -icon or alternatively select **Show preview** from the dropdown menu.

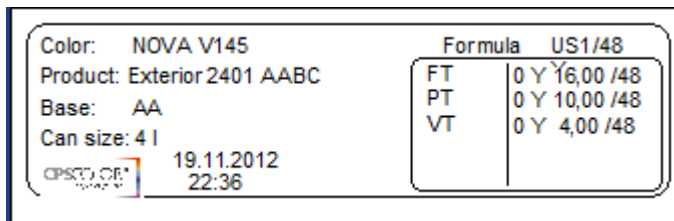


A new window will be opened where data content fields are populated as they would be in real print (demonstrational data used).

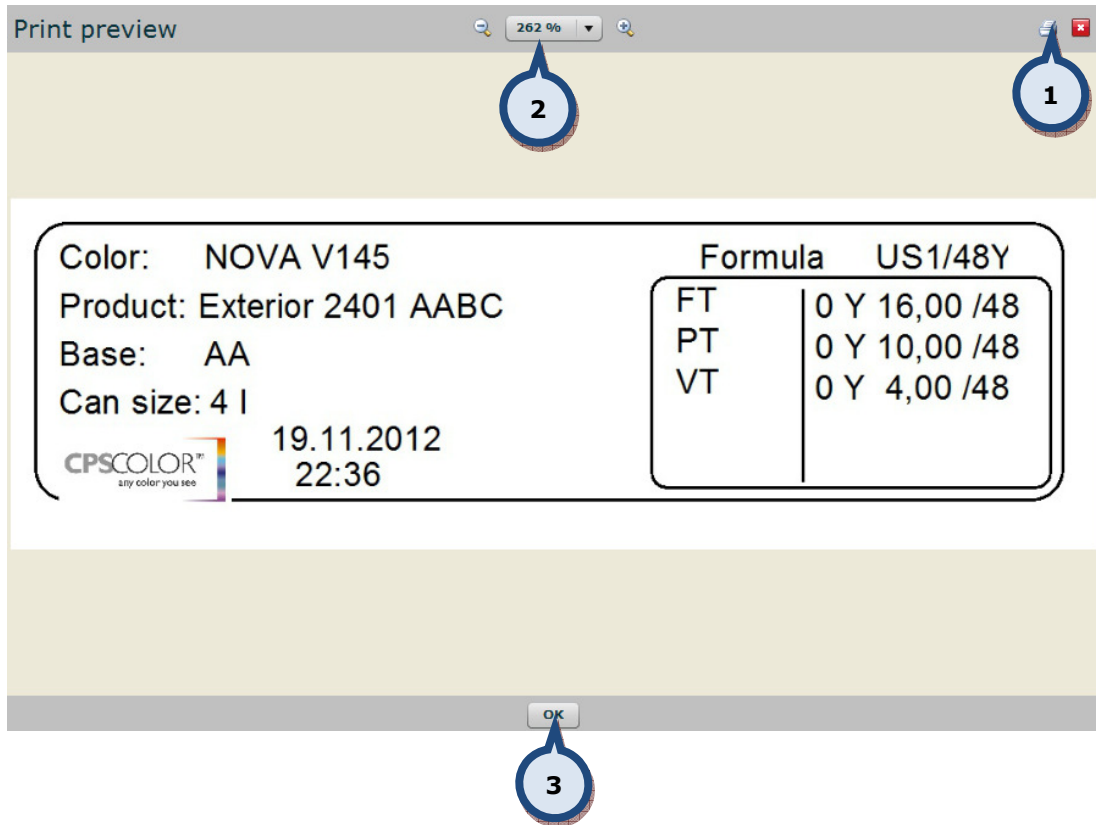
data design view:



preview mode:



Preview window has following options




1. Print the preview
2. Zoom the object
3. Close the preview window

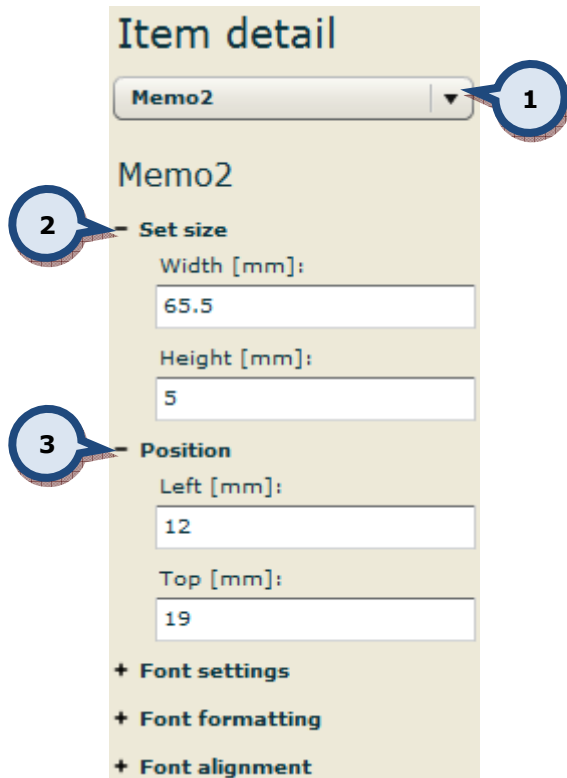
Available item types

Select tool



Select tool, , is used to select an item from the label in order to modify its content or to change location in the canvas. Item detail dropdown (1) or Tab-button can also be used to navigate through the items.

Depending on the selection of the item, different type of information is shown on the right side on the **Item details** section.




2. Set size defines the size of the component
3. Position the location of the item in the label (top left corner)
both of these are always present to each item types


All item, when selected, can be moved around the canvas with mouse by clicking it and dragging it to its new location. Likewise it's possible to reset their size by extending/shrinking the area of the component. Any change made are effected to above size and position values.

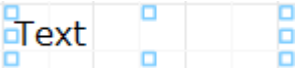
Zoom



Zoom tool, , is used to zoom in and out. Mouse left click zooms in and right click out.

Add text

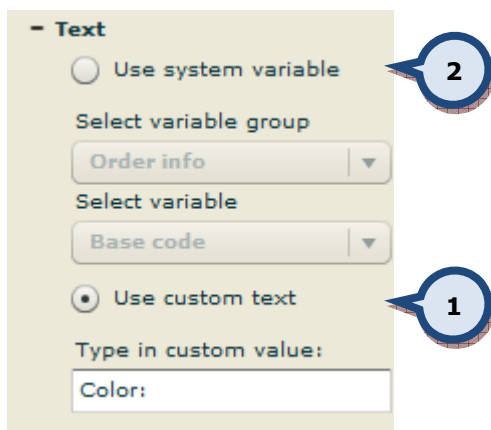
Text component is added to the label by clicking  -icon and placing it to the canvas.

Area within the blue rectangles is reserved to display the content. 

Custom text / system variable

Text can be "custom text" or a system variable – component to collect data from the database.

Use radio -button to select the type of content.



1. To create static text to the label select custom text. Type in custom value.
2. To collect data from the database select system variable.

System variables are grouped into logical sets that present the area of need to easier find needed data variable. Possible options for group are:

- Date and times
- Extra info
- Formula
- InnovaTint Lab
- Order info
- Prices (default currency)
- Prices (selected currency)
- Site info

Date and times

Variable from Data and times displays Date and/or time in its short format as set in Windows regional settings. Possible options are;

- Current date [currentDate] "19.12.2012"
- Current date + time [currentDateTime] "19.12.2012 12:12"
- Current time [currentTime] "12:12"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

Extra info

Variable from Extra info displays additional information related to the order. Price group info can only be shown, if in InnovaTint Lab mentioned function has been set to use. Possible options are;

- Price group [EIPriceGroup] "2"
- Total mass [EITotalMass] "1234,34 g"
- Total volume [EITotalVolume] "1000,23 ml"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

Formula

Variable for the Formula displays information related to the formula used in the order. Possible options are:

- Formula cnts codes [formulacolorants] "RT, TT, VT" *-where each colorant is on it's own row*
- Formula cnts volumes (currently selected unit) [FormulaSelectedVolumes] "12/96, 41/96, 15/96" *-where each amount is on it's own row. /96 in this example presents temporarily selected unit in use.*
- Formula cnts volumes (default unit) [FormulaDefaultVolumes] "12/96, 41/96, 15/96" *- where each amount is on it's own row. /96 is the default unit set in InnovaTint POS version.*
- Formula cnts volumes (ml) [FormulaMIVolumes] "0,12, 0,13, 0,14" *-where each amount is in ml's and on it's own row*
Formula note [FormulaNote] "low hiding"
- Formula volumes unit (currently selected) [formulaSelectedUnit] "/96"
- Formula volumes unit (default) [formulaDefaultUnit] "/192"
- Formula volumes unit (ml) [formulaMIUnit] "ml"
- Formula weighting (volumes from db) [formulaCCsFromDb] "1, 2, 3" *-where each amount is on it's own row*
- Formula weighting (volumes from scale) [formulaCCsFromScale] "1, 2, 3" *-where each amount is on it's own row*
- Formula weighting (weights from db) [formulaWeightsFromDb] "1, 2, 3" *-where each amount is on it's own row*
- Formula weighting (weights from scale) [formulaWeightsFromScale] "1, 2, 3" *-where each amount is on it's own row*

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

InnovaTint Lab

InnovaTint Lab variables are designed to support InnovaTint Lab matching and characterization features. Possible options are:

- Characterization set component [charsetCMP]
- Characterization set components [charsetSampleComponents]
- Characterization set formula volumes (proposed amount of component) [charsetCMPpro]
- Characterization set formula volumes (true specific gravity for sample) [charsetCMPsg]
- Characterization set name [charsetName]
- Characterization set sample name [charsetSampleName]
- Characterization set volumes (actual amount of component) [charsetCMPam]
- Color HTML [colorHTML]
- Color LAB [colorLAB]
- Color XYZ [colorXYZ]
- Sample made by [madeBy]
- Sample thickness [thickness]
- VOC components [formulaVOCcontent]
- VOC total [formulaVOC]

Order info

Order info variables are related items in the order and customer. Possible options are:

- Base code [baseCode] "White"
- Can actual / total [canIDLot] "2/4"
- Can actual number [canID] "3"
- Can name [canName] "4 litre"
- Cans total number [canTotal] "10"
- Colour code [colourCode] "Spirit 1-2-3"
- Colour name [colourName] "Blue velvet"
- Customer name [customerName] "John Doe"
- Date of Order [modificationDate] "18.12.2012 14:20"
- Date of order creation [creationDate] "17.12.2012 12:12"
- Order ID [orderID] "100202"
- Product name [productName] "Exterior Latex"
- User notes [UserNote] "Living room ceiling"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

Prices (default currency)

Default currency prices variables uses currency and values set for the zone in use. See LAB manual for the calculation models. Possible options are:

- Base cost (default) [EIPDBaseCost] "20 €"
- Base margin (default) [EIPDBaseMargin] "5 €"
- Base price (default) [EIPDBasePrice] "25 €"
- Colorant cost (default) [EIPDCntCost] "1 €"
- Colorant margin (default) [EIPDCntMargin] "0,1 €"
- Colorant price (default) [EIPDCntPrice] "1,1 €"
- Cost (default) [EIPDCost] "21 €"
- Discount (default) [EIPDDiscount] "0"
- List price (default) [EIPDListPrice] "26,1 €"
- Margin (default) [EIPDMargin] "5,1 €"
- Maximum retail price (default) [EIPDMaxPrice]
- Price (default) [EIPDPrice] "26,1 €"
- Price per kg (default) [EIPDPricePerKilogram] "26,1 €"
- Price per litre (default) [EIPDPricePerLitre] "28,0 €"
- Tax (default) [EIPDTax] "2 €"
- Tint fee (default) [EIPDTintFee] "0,3 €"
- Tint price (default) [EIPDTintPrice] "1,4 €"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

Prices (selected currency)

Selected currency prices variables uses alternative currency and its conversion rate as set in POS. Shown values are conversions and may cause inaccuracies. Possible options are:

- Base cost (selected) [EIPSBaseCost] "20 €"
- Base margin (selected) [EIPSBaseMargin] "5 €"
- Base price (selected) [EIPSBasePrice] "25 €"
- Colorant cost (selected) [EIPSCntCost] "1 €"
- Colorant margin (selected) [EIPSCntMargin] "0,1 €"
- Colorant price (selected) [EIPSCntPrice] "1,1 €"
- Cost (selected) [EIPSCost] "21 €"
- Discount (selected) [EIPSDiscount] "0"
- List price (selected) [EIPSListPrice] "26,1 €"
- Margin (selected) [EIPSMargin] "5,1 €"
- Maximum retail price (selected) [EIPSMaxPrice]
- Price (selected) [EIPSPrice] "26,1 €"
- Price per kg (selected) [EIPSPricePerKilogram] "26,1 €"
- Price per litre (selected) [EIPSPricePerLitre] "28,0 €"
- Tax (selected) [EIPSTax] "2 €"
- Tint fee (selected) [EIPSTintFee] "0,3 €"
- Tint price (selected) [EIPSTintPrice] "1,4 €"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

Site info

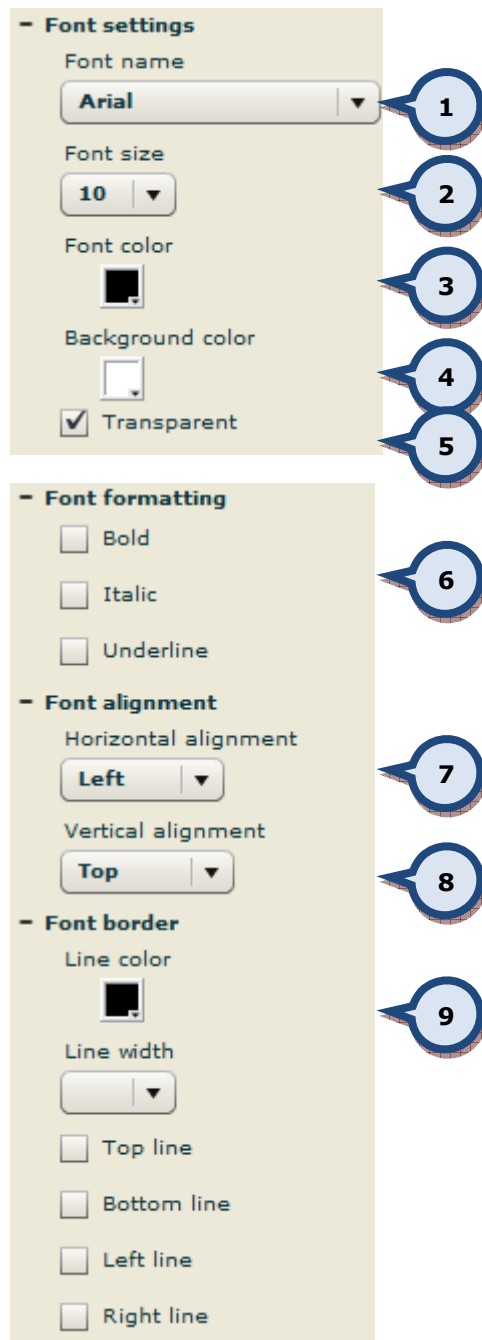
Site info variable displays information about the store. Possible options are:

- Company name [companyName] "Retailer ABC"
- Site address 1 [address1] "Paint street 1"
- Site address 2 [address2] "City2"
- Site country [country] "Finland"
- Site email [email] retailer1@abc.com
- Site name [siteName] "local site"
- Site phone [phone] "+358 123 123"
- Site post code [postCode] "12312"

,where info on brackets is the name of function as displayed on the designer canvas. Values on quotation marks are examples of the outcome.

Text formatting


Text format, font type, size, color..., can be set in header line settings (**see section 2**) or using item details options.

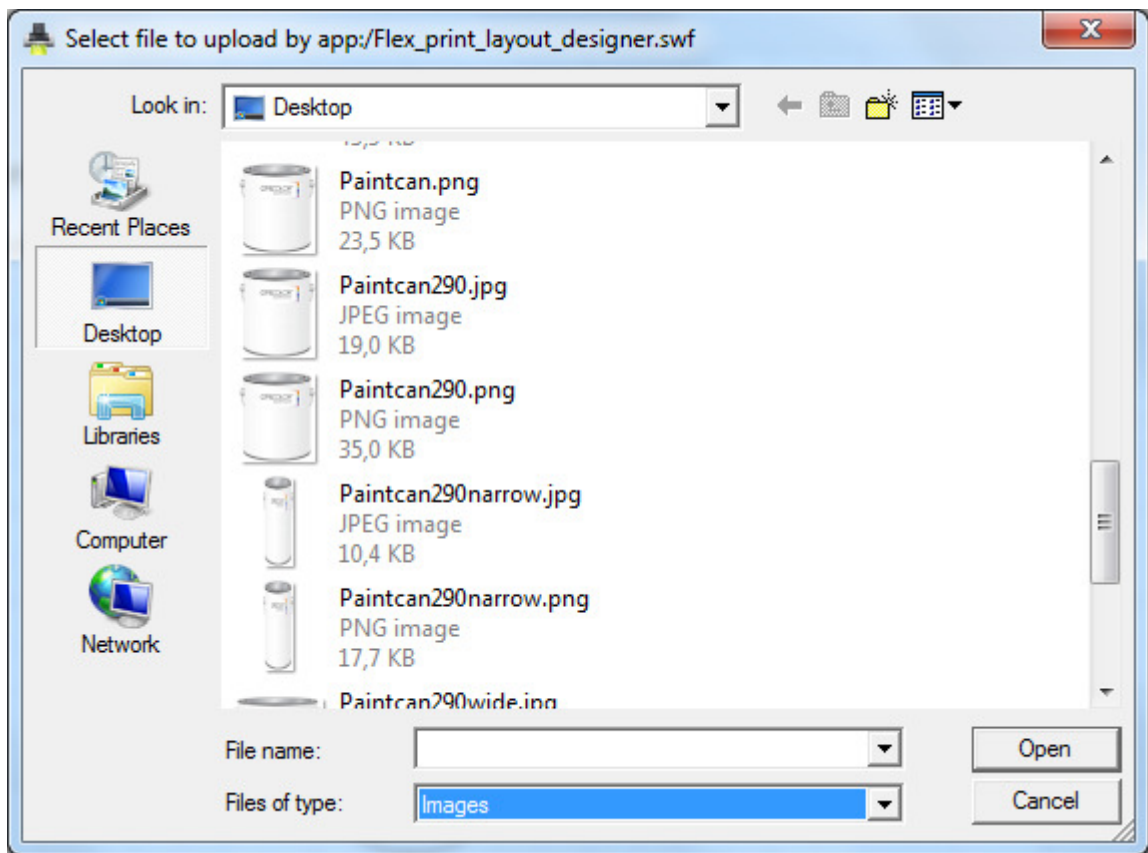


1. Set the font
2. Set the font size
3. Font color
4. Background color for the text
5. Should the background be transparent
6. Font format
7. Horizontal alignment, left, centre, right
8. Vertical alignment, top. middle, bottom
9. Border options, line color. width and orientations.

Add picture



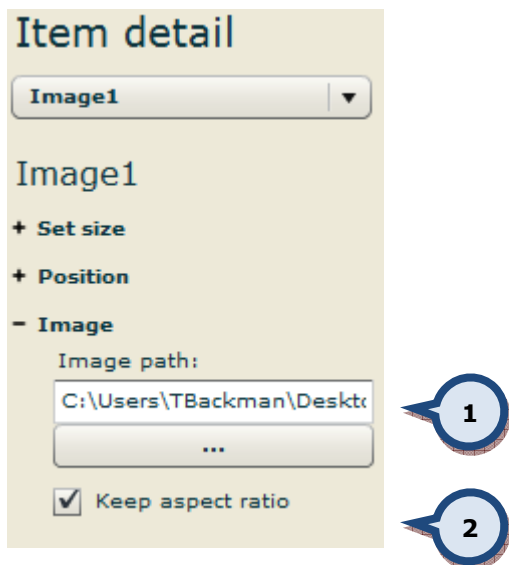
Click on the  -icon to add picture to the canvas. A new window will be opened to define location where to find needed picture.



Supported picture formats are .jpg, .bmp and .png.


Place the picture to its location.

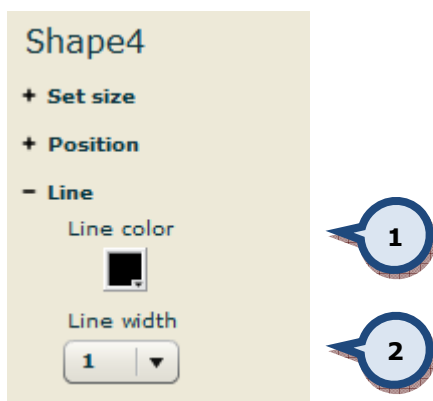
Following options are available to control picture items



1. Location for the picture
2. How to treat picture if the area reserved for it doesn't match the picture aspect ratio. If off, picture is scaled to fit whole area.


Add line

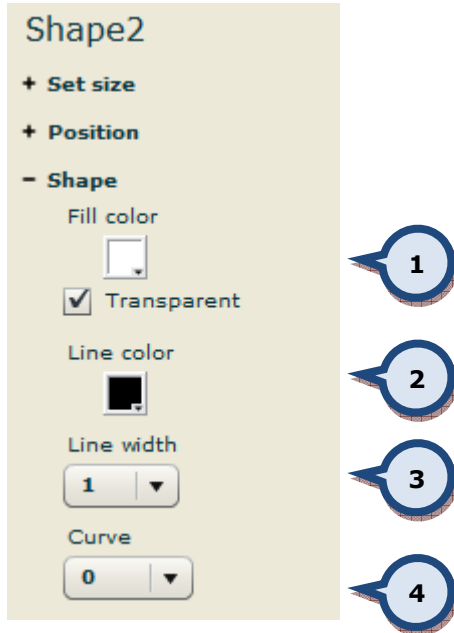
Click on the  icon to add a line to the canvas. Following options are available to control line properties.



1. Set line color
2. Set line width


Add rectangle

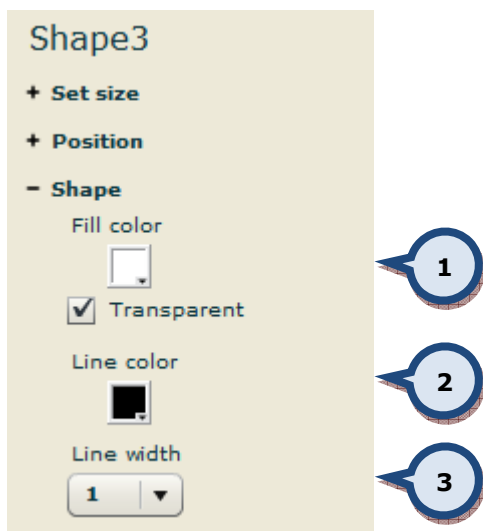
Click on the  -icon to add a rectangle to the canvas. Following options are available to control rectangle properties.



1. Set fill color and transparent
2. Set line color
3. Set line width
4. Set radius for the corners.

Add circle / eclipse


Click on the  -icon to add a circle or eclipse to the canvas. Following options are available to control circle properties.



1. Set fill color and transparent
2. Set line color
3. Set line width

Add barcode



Click on the -icon to add barcode to the canvas. Following options are available to control circle properties.

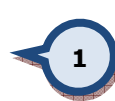
- Barcode


Select value to bind


Select barcode type

Barcode prefix

Show label







1. Type of information to be set into the barcode. Options are:

- Base cost barcode (type EAN13/UPC)
- Base margin barcode (type EAN13/UPC)
- Base price barcode (type EAN13/UPC)
- Color barcode (type Code39)
- Colorant cost barcode (type EAN13/UPC)
- Colorant margin barcode (type EAN13/UPC)
- Colorant price barcode (type EAN13/UPC)
- Cost barcode (type EAN13/UPC)
- Discount barcode (type EAN13/UPC)
- List price barcode (type EAN13/UPC)
- Margin barcode (type EAN13/UPC)
- Maximum retail price (type EAN13/UPC)
- Order barcode (type Code39)
- Price barcode (type EAN13/UPC)
- Price group barcode (type EAN13/UPC)
- Price per kg barcode (type EAN13/UPC)
- Price per litre barcode (type EAN13/UPC)
- Tax barcode (type EAN13/UPC)
- Tint fee barcode (type EAN13/UPC)
- Tint price barcode (type EAN13/UPC)

- Barcode prefix gives an option to pinpoint barcode type to one used in cashier system.

EAN/UPC barcode consist four distinct areas

- **prefix** (links the item to cashier system) "2303222"
- **"zero"** padding (fills the empty space of the others) "000"
- **encoded price** (price coming from the database) "89"
- **checksum** "5"


2 303222 000895

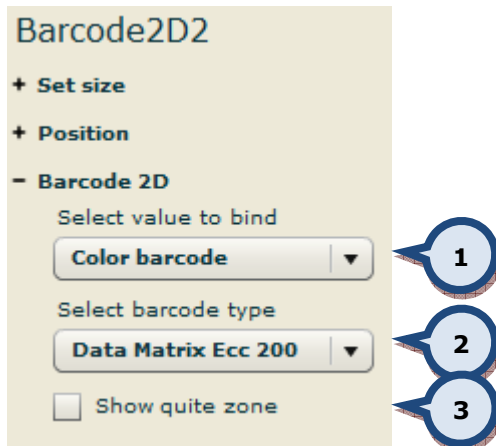
If prefix is started with zero "0", created barcode is compatible with UPC-based coding.

- Show label adds barcode label into the barcode, see below picture.



Add 2D barcode

Click on the -icon to add barcode to the canvas. Following options are available to control circle properties.



1. Type of information to be set into the barcode. Options are:
 - Color barcode
 - Order identificator
2. Type of 2D barcode, options are:
 - Data Matrix Ecc 200
 - QR Code



3. Show quite zone add empty margins around the barcode.

13. APPENDIX 5

InnovaTint reception options

InnovaTint has option to accept remote orders using flink protocol. The remote software has to use compatible flink format file and the databases have to match (colorant codes, product names, base codes, can names).

The correct structure of flink file looks like this (some lines are optional, please read more about Flink protocol in definition of this protocol):

```

@RUN
@PRD "SOLVENT PRODUCT" "BRITISH STANDARD 4800"
@WGH 0
@UNT 31.2460 96.0000
@CLR "BS 02 C 39"
@CAN "5000 ml" 5000.0000
@LQT 1
@CNT "MS" 0.001 "KU" 40 "BS" 20
@FRM "MS,0.001,KU,40,BS,20" 1000.0000
@END

@RUN
  Start of session
@PRD "SOLVENT PRODUCT" "BRITISH STANDARD 4800"
  "SOLVENT PRODUCT" – Product name
  "BRITISH STANDARD 4800" – Subproduct name (optional)
@WGH 0
  Definition of weight / volume dispensing
@UNT 31.2460 96.0000
  Unit definition (optional)
  31.2460 – metering unit
  96.0000 – fraction unit
@CLR "BS 02 C 39"
  "BS 02 C 39" – color code
@CAN "5000 ml" 5000.0000
  "5000 ml" – name of can
  5000.0000 – nominal quantity of can (optional)
@LQT 1
  Lot quantity (optional)
  1 – number of packages
@CNT "MS" 0.001 "KU" 40 "BS" 20
  Formula definition
  "MS" 0.001 "KU" 40 "BS" 20 – list of colorants and volumes
@FRM "MS,0.001,KU,40,BS,20" 1000.0000
  Second option of formula definition
  "MS,0.001,KU,40,BS,20" – formula in different format cnt codes or Ids and volumes
  1000.0000 – formula volume
@END
  End of session

```

InnovaTint comes with two build in tools, that can modify flink file and allow to process files, that contains for example not matching product names, base codes, can names etc., but completely different structure. Both tools are configured and enabled by creating configuration files.

Flink translation file

Path to configuration file:

C:\wuser\InnovaTint\wflink_translation.ini

Description of tool:

This tool allows to „translate“ the entered names and codes. It is very useful, when for example name of products, bases, cans etc. doesn't match in InnovaTint and other software. It doesn't alter the structure of file (commands have to match the with example above)

Structure of configuration file:

File consists of sections: each section is first tag of flink file inside set of square brackets, for example:

[@PRD], [@BAS], [@CAN], [@FRM],

In the sections you can use unlimited number of translation rules, one rule is one line in section. Rule

consists of one or more strings to be translated to one or more other strings.

The section of old string and new string is separated by equal sign „=“, when there is set of strings, then they are separated by vertical bar „|“. The number of sets can be different (one of old string can be rewritten to two etc.).

Examples:**Base C=C**

@BAS "Base C" is translated to @BAS "C"

Product with very long name AABC=Product AABC

@PRD "Product with very long name AABC" is translated to @PRD "Product AABC"

Product 1|Subproduct AABC=Product 1 AABC

@PRD "Product 1" "Subproduct AABC" is translated to @PRD "Product 1 AABC"

Subproduct AABC=AABC

@PRD "Product 1" "Subproduct AABC" is translated to @PRD "Product 1" "AABC"

Example of whole wflink_translation.ini file

```

[@PRD]
CPS Matching Exterior 2401 AABC=Exterior 2401 AABC
CPS Matching Exterior 2401 AAC=Exterior 2401 AAC
CPS Matching Interior 2401 AABC=Interior 2401 AABC
CPS Matching Interior 2401 AAC=Interior 2401 AAC
[@BAS]
CPS BASE AA=AA
CPS BASE B=B
CPS BASE C=C
[@CAN]
CAN 1 1=1 1
CAN 4 1=4 1
10=10 1

```

Flink file received:

```

@RUN
@PRD "CPS Matching Exterior 2401 AAC"
@UNT 1 1
@CLR "ASF 1011"
@CNT "FT" 9.85666634515 "MM" 8 "TT" 16.0170827061 "VT"
7.39249996841 "XT" 26.4897912741
@LQT 1
@BAS "CPS BASE C" 900
@CAN "CAN 1 1" 1000
@FRM 1000
@END

```

Flink file translated:

```

@RUN
@PRD "Exterior 2401 AAC"
@UNT 1 1
@CLR "ASF 1011"
@CNT "FT" 9.85666634515 "MM" 8 "TT" 16.0170827061 "VT"
7.39249996841 "XT" 26.4897912741
@LQT 1
@BAS " C" 900
@CAN "1 1" 1000
@FRM 1000
@END

```

Flink rewrite tool**Path to configuration file:**

C:\wuser\InnovaTint\wflink_rewrite.ini

Description of tool:

This tool modifies the structure of flink file. It allows using InnovaTint flink order reception even if the second software is using completely different structure of flink file. It works in a way, that it parses received flink file by template and then formats parsed data to valid structure of InnovaTint reception flink file.

Structure of configuration file:

The configuration file is in fact flink file, but instead of values, there are variable, that identifies values.

Here is list of possible variables:

\$PRODUCT\$
\$SUBPRODUCT\$
\$WEIGHT\$
\$UNIT\$
\$FRACTION\$
\$COLOR\$
\$GDATA\$
\$FORMULA\$
\$FORMULA_AMOUNT\$
\$FORMULA_WEIGHT\$
\$CAN\$
\$CAN_AMOUNT\$
\$CAN_WEIGHT\$
\$BASE\$
\$BASE_AMOUNT\$
\$BASE_WEIGHT\$
\$BARCODE\$
\$LOT_SIZE\$
\$CNT_ALL\$
\$CNT_CODE [x] \$
\$CNT_AMOUNT [x] \$
\$REFILL_ALL\$
\$REFILL_AMOUNT [x] \$

The most of values are single variables, but there are also arrays (\$CNT_CODE[x]\$, \$CNT_CODE[x]\$, \$CNT_AMOUNT[x]\$), that needs to identify the key of array. You can select if you want to use arrays or you can use variable ending by „_ALL“. This means, that parser read everything from the actual position of line till the end of line.

Example of single lines

@UNIT \$UNIT\$ \$FRACTION\$ \$WEIGHT\$

Received line

```
@UNIT 31.2460 96 1
```

Is rewritten to

```
@UNT 31.2460 96
@WGH 1
```

@FORMULA \$COLOR\$ \$PRODUCT\$ \$BASE\$ \$SCAN\$ \$CNT_ALL\$

Received line

```
@FORMULA "BS 02 C 39" "Exterior 2401 AAC" "C" "5 1" "MS" 0.001
"KU" 40 "BS" 20
```

Is rewritten to

```
@CLR "BS 02 C 39"
@PRD "Exterior 2401 AAC"
@BAS "C"
@CAN "5 1"
@CNT "MS" 0.001 "KU" 40 "BS" 20
```

@CNT_CODES \$CNT_CODE[1]\$ \$CNT_CODE[2]\$ \$CNT_CODE[3]\$ \$CNT_CODE[4]\$ \$CNT_CODE[5]\$ \$CNT_CODE[6]\$...

@CNT_VOLUMES \$CNT_AMOUNT [1]\$ \$CNT_AMOUNT [2]\$ \$CNT_AMOUNT [3]\$ \$CNT_AMOUNT [4]\$ \$CNT_AMOUNT [5]\$ \$CNT_AMOUNT [6]\$...

Received lines

```
@CNT_CODES "MS" "KU" "BS"
@CNT_VOLUMES 0.001 40 20
```

Are rewritten to

```
@CNT "MS" 0.001 "KU" 40 "BS" 20
```

Examples of whole wflink_rewrite.ini file

Example of rewrite template:

```
@BEGIN
@KLEUR $COLOR$
@EENHEID $UNIT$ $FRACTION$ $WEIGHT$
@GOEDEREN $PRODUCT$ $BASE$ $BASE_AMOUNT$ $SCAN$ $SCAN_AMOUNT$
@KLEURSTOF $CNT_ALL$
@PAKKET $LOT_SIZE$
@EIND
```

Valid flink file to be rewritten

```
@BEGIN
@EENHEID 1 1 0
@PAKKET 10
@KLEURSTOF "FT" 9.85666634515 "TT" 16.0170827061 "VT"
7.39249996841 "XT" 26.4897912741
@GOEDEREN "Exterior 2401 AABC" "C" 900 "1 1" 1000
@KLEUR "ASF 1011"
@EIND
```

Example of rewrite template:

```
@RUN
@CLR $COLOR$
@UNT $UNIT$ $FRACTION$
@FRM $FORMULA$ $BASE_AMOUNT$
@PRD $PRODUCT$ $SUBPRODUCT$
@BAS $BASE$
@CAN $CAN$
@END
```

Valid flink file to be rewritten

```
@RUN
@CLR "00NN 05/000"
@UNT 29.57 48.0
@FRM "FT,672.,LT,78.742" 3784
@PRD "Exterior 2401 AABC"
@BAS "AA"
@CAN "4 1" 4000
@END
```

Combination of translation and rewrite tools

Both tools can be used together, you only need to keep in your mind, the order, how are tools applied. First is always translation done, then the rewrite.

Content of C:\wuser\InnovaTint\wflink_translation.ini file

```
[@PRODUCT]
CPS Matching Exterior 2401 AABC=Exterior 2401 AABC
CPS Matching Exterior 2401 AAC=Exterior 2401 AAC
CPS Matching Interior 2401 AABC=Interior 2401 AABC
CPS Matching Interior 2401 AAC=Interior 2401 AAC
[@BASE]
CPS BASE AA=AA
CPS BASE B=B
CPS BASE C=C
[@CAN]
CAN 1 1=1 1
CAN 4 1=4 1
10=10 1
```

Content of C:\wuser\InnovaTint\ wflink_rewrite.ini file

```
@RUN
@COLOR $COLOR$
@UNT $UNIT$ $FRACTION$
@FORMULA $FORMULA$ $BASE_AMOUNT$
@PRODUCT $PRODUCT$ $SUBPRODUCT$
@BASE $BASE$
@CAN $CAN$
@END
```

Flink file

```
@RUN
@COLOR "00NN 05/000"
@UNIT 29.57 48.0
@FORMULA "FT,672.,LT,78.742" 3784
@PRODUCT "CPS Matching Exterior 2401 AABC"
@BASE "CPS BASE AA"
@CAN "CAN 4 1" 4000
@END
```