mipa

Professional Coating Systems

User Manual Mipa Mix 5.0

Contents

1. Start the program "mipa Mix 5.0" with a double click on the icon.
   The following window will appear on the screen:
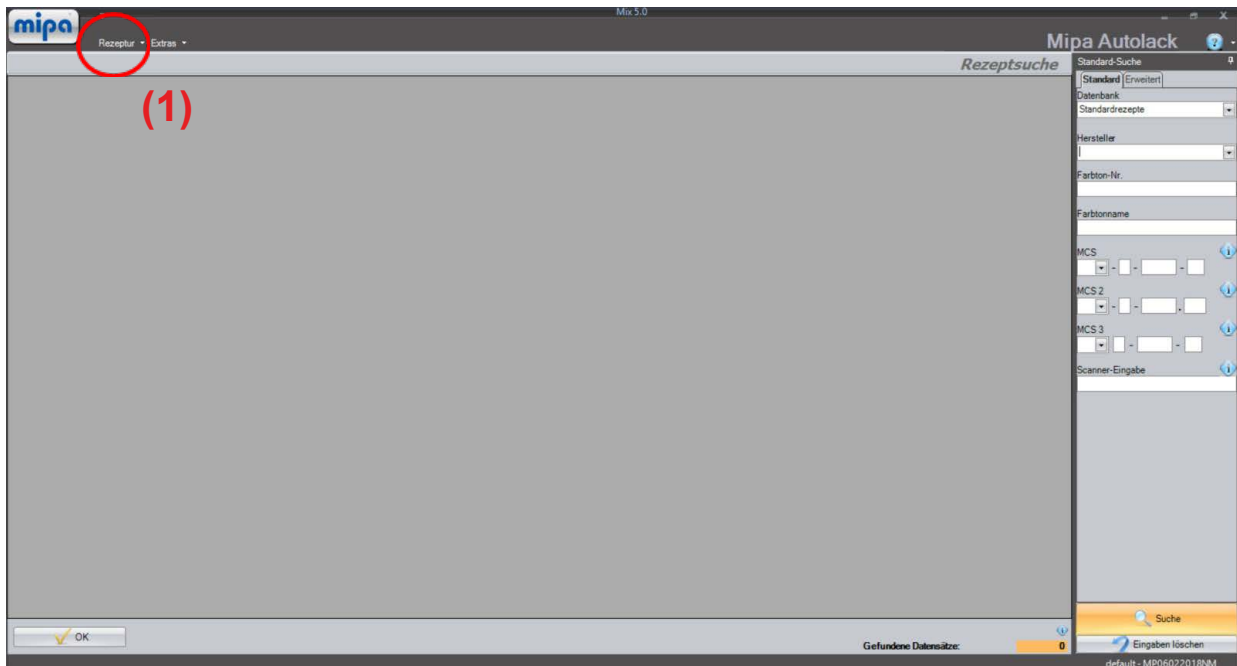
2. Call up or search for a formulation by using the K3 key or click on "Formulation" **(1)** →
   "Search formulations". The following window will open on the screen:
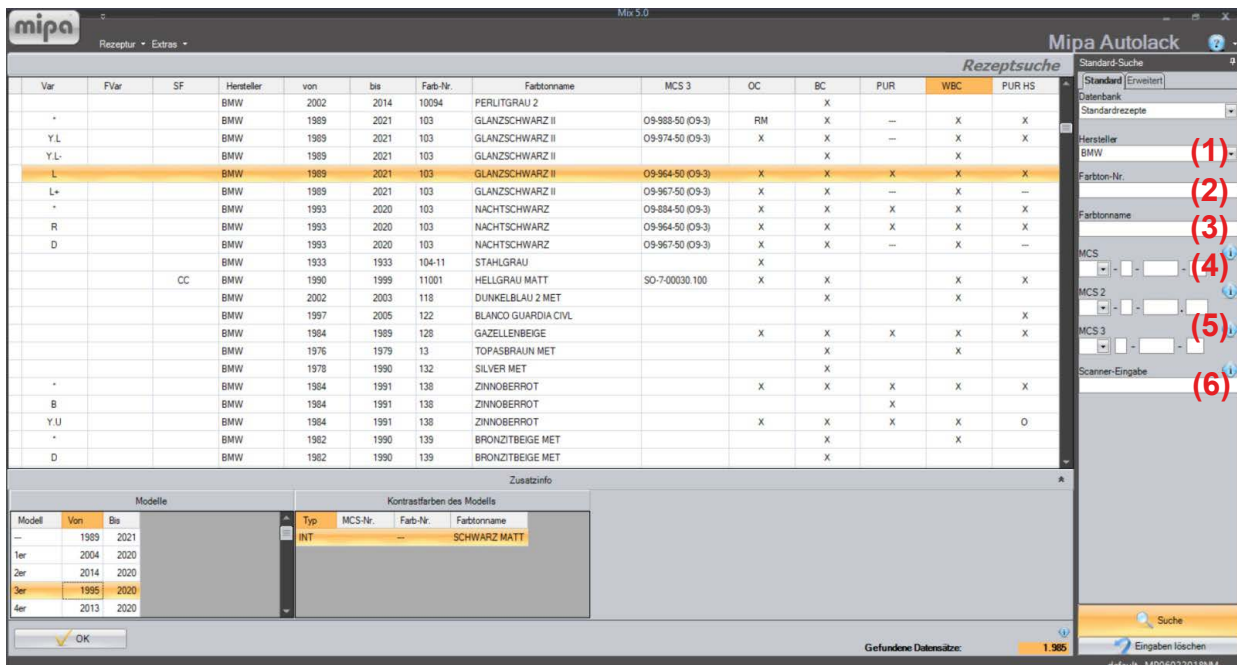
You can select between following options:

(1) Manufacturer   **(5)** MCS-no. 1 / 2 / 3
(2) Colour-code   **(6)** Scanner settings
(3) Colour-name
(4) MCS-no.

Please note! You have to select at least one of these options in order to start the search!
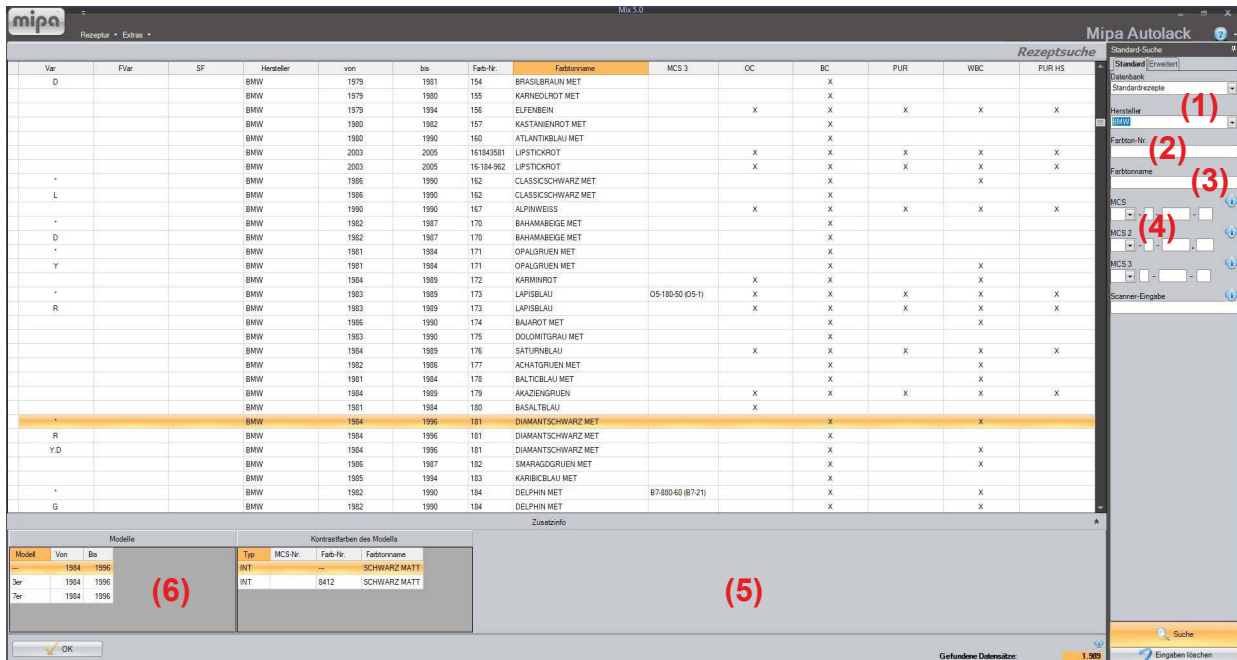
2. Furthermore, under the tab "Extend" you can select between following options:

(1) Model
(2) Year of construction
(3) Colour group
(4) Formulation no.

Important: The additional information is for display only! You have no access to contrast colours.

Regarding additional information

During the formulation search, you can access additional information by using the right mouse button or by clicking on the "arrow" key **(5)**. Additional information about the manufacturer / model **(6)** is displayed here. (Model / year of construction)

3. After you have filled out the necessary fields, please press "Search" or start your search with ENTER. The following window will open:
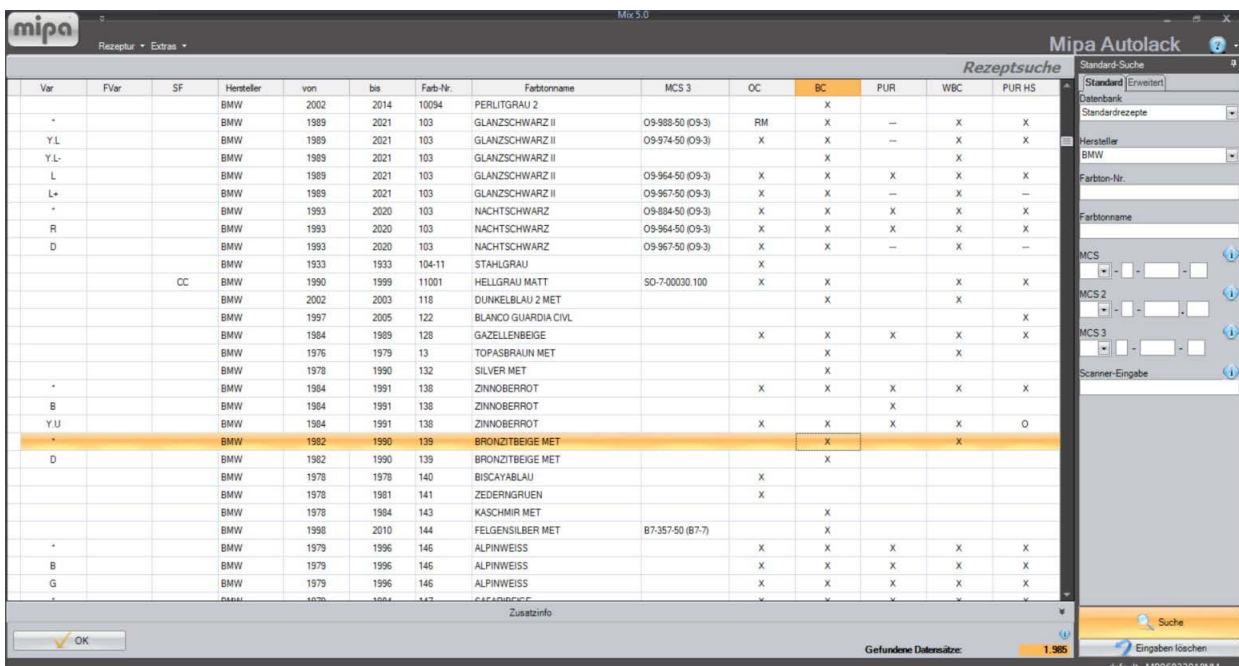

Please confirm your search result with "OK" or by double-clicking on the button and select the required quality:

Please confirm your selection with "OK" and enter your data: (this picture may vary according to the quality!)

(1)   Variant / Degree of gloss

(2)   Amount

(3)   Unit   }   Here you can change the amount and the unit!

(4)   Type of car   (See also in Settings "Basic data")

Once you have made your selection, please confirm your entries by clicking on the button "OK".

The following window will open:
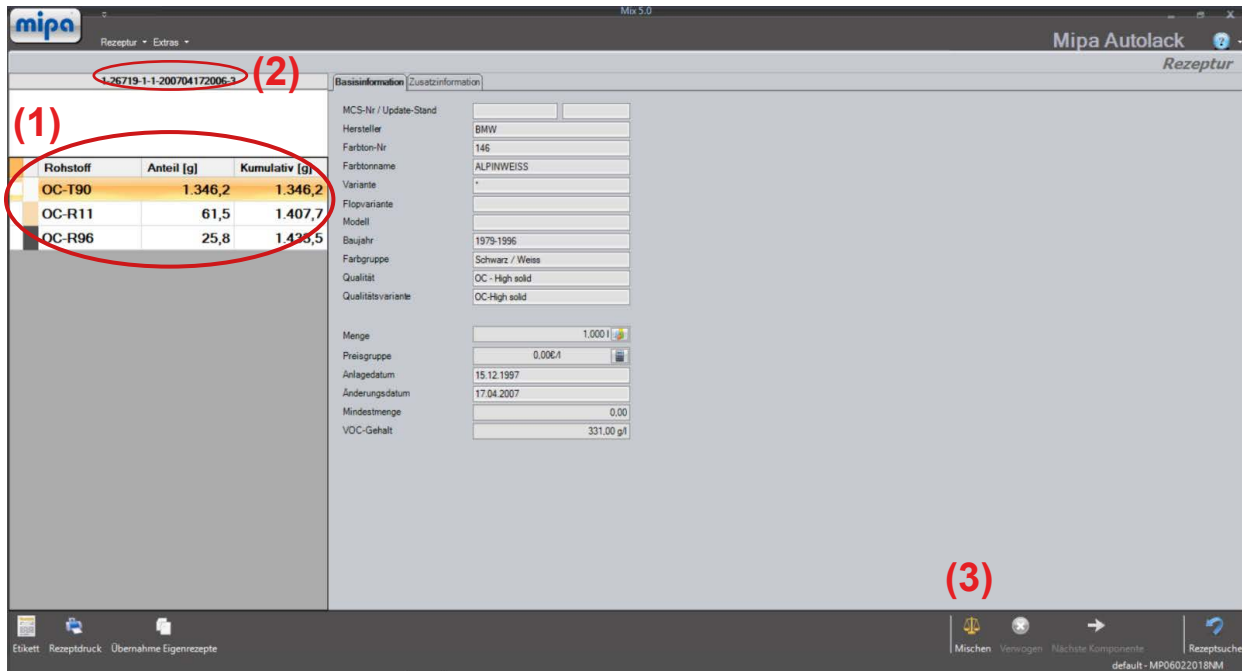
On the left side of the screen you can now see the formulation **(1)** and its corresponding formulation number **(2)**. To start the weighing process click on "Mix" **(3)** and the following window will open:
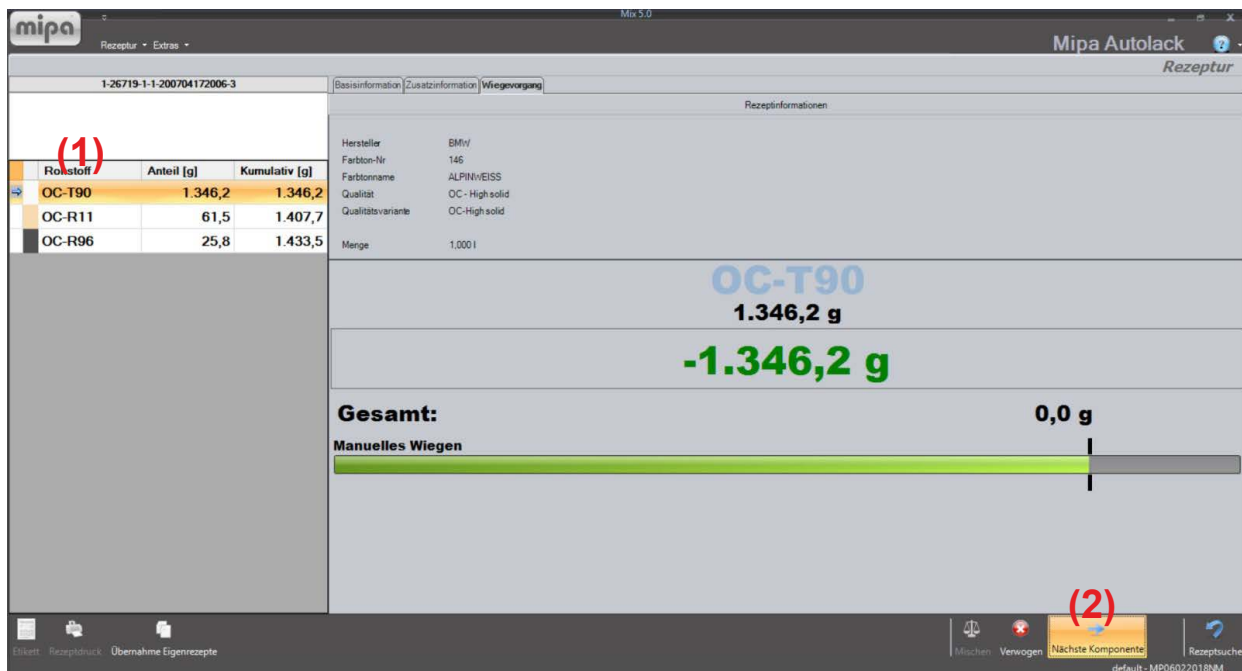
You will now be asked to add the respective components **(1)**. To add the next component click on "Next component" **(2).**

After you have weighed the respective component, it will be marked as 'done' with a green arrow. After the last component a target/actual **(3)** message appears and the weighing process is completed.
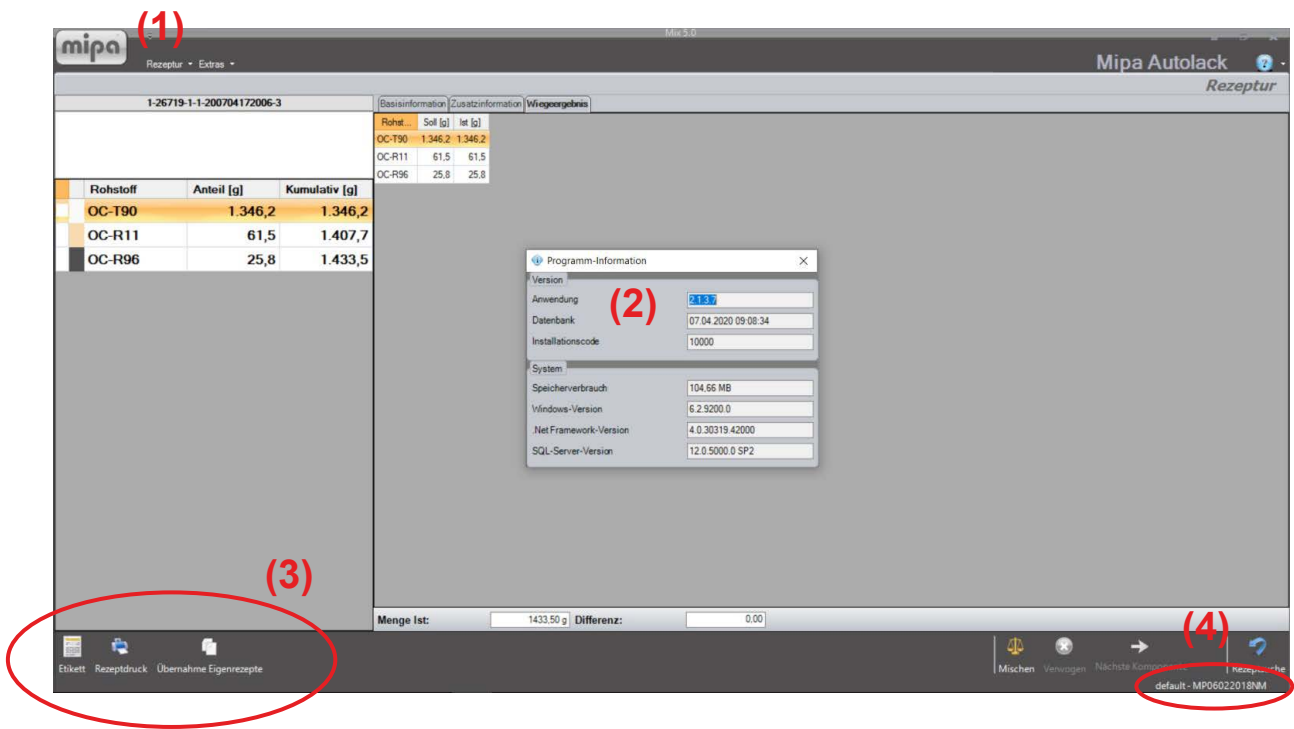
In order to search for a new formulation click on "Search formulation" **(4)** or press F3-key to return to point 2.

(1) Here you can define Quick start functions

(2) Here you can find the program information

(3) Here you can select different mixing systems here

(4) In this field, logged-in user information is displayed
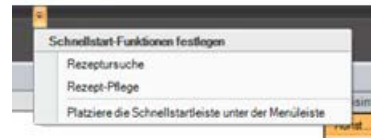
You can log-in/log-out here by entering your user

ID and your password as well as exit the program.

(Customer administrator:

User ID → experte

Password → experte)

Function keys

F2 Archive of formulations

F3 Formulation search

F4 Formulation maintenance

F5 Use

F6 Manually dispense

F9 Warehouse Management

F12 Program settings

Further functions

(1) Label printing (here you can print a label manually / not necessary if setting "Automatic label printing" activated

(2) Formulation printing (here you can print a formulation on A4 sheet)

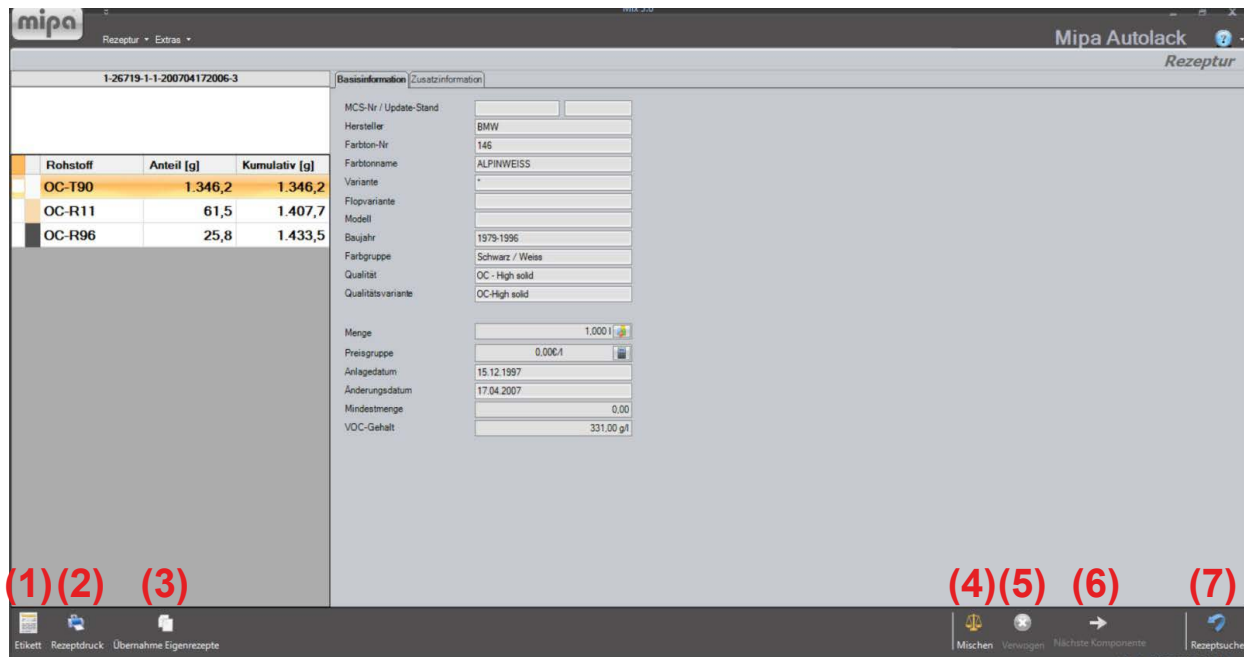**(3)** Transfer of own formulation (here you can transfer a formulation to the database "Own formulations" / See instructions "Creation of own formulations")

(4) Mixing (here you can start the mixing process)

(5) Wrong amount (if you entered an incorrected amount you can start a correction calculation after entering the right amount → with "Manual weighing" / in connection to a scale, a query will appear if a correction is needed)

(6) Next component (after weighing component "A" you can get to component "B")

(7) Search formulation (click here to go to the functionality "Search formulation")

General Settings (F12)

You can adjust following settings on this tab:

(1) Preferred region (this affects the sorting process. The selected region is displayed as first result.)

(2) Language (program set language)

(3) VAT (this affects the price calculation)

(4) Currency symbol (this is displayed with price groups and price calculation)

(5) Conversion rate to euro (here you can enter a conversion rate to EURO (EURO ↔ national currency) in order to enter prices in EURO in the price table, but keep national specific conversion rate /price displayed)

(6) VOC – concentration (EU / USA / CH)

(7) Initial sign for scanner (see "Scanner Settings")

(8) Weighing / stock history anonymously (**activated:** you do not need to be logged in as "expert" to be able to weigh /**deactivated**: you can only mix after registring (log-in) as "expert" because tinting processes are recorded)

Additional functions
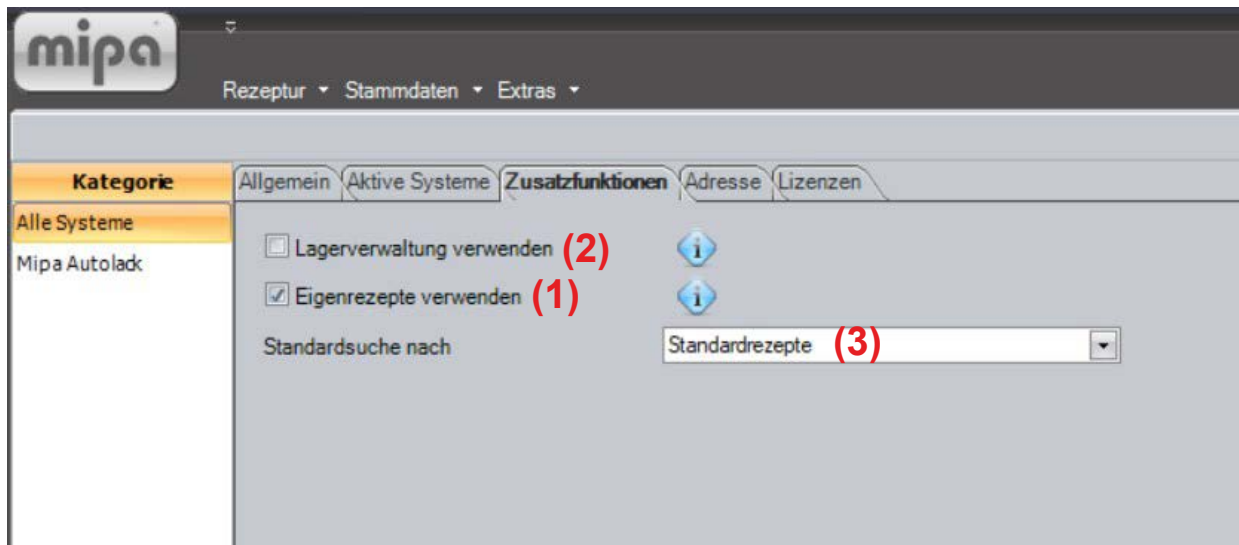
Here you can choose whether you want to use "Own formulations" **(1)** and "Warehouse management" **(2)** (see chapter "Warehouse management"). Furthermore, here you can set the standard search for formulations **(3)**.

Address
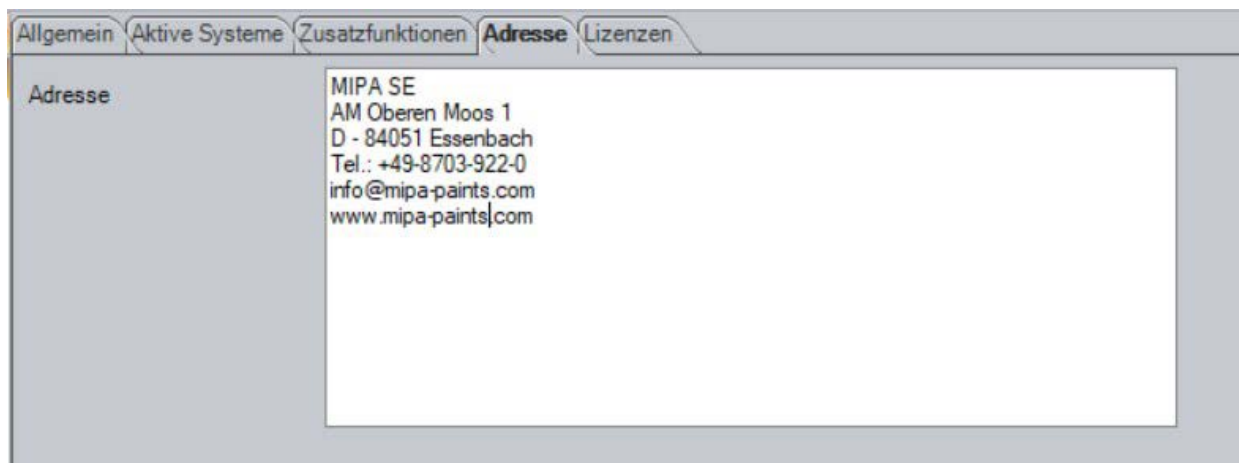
Here you can enter a company address (if "Address" is selected, this will be printed on the label.)

Qualities

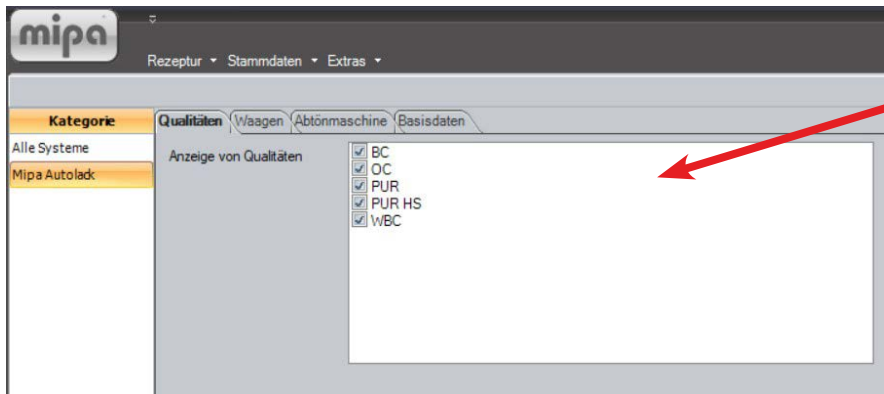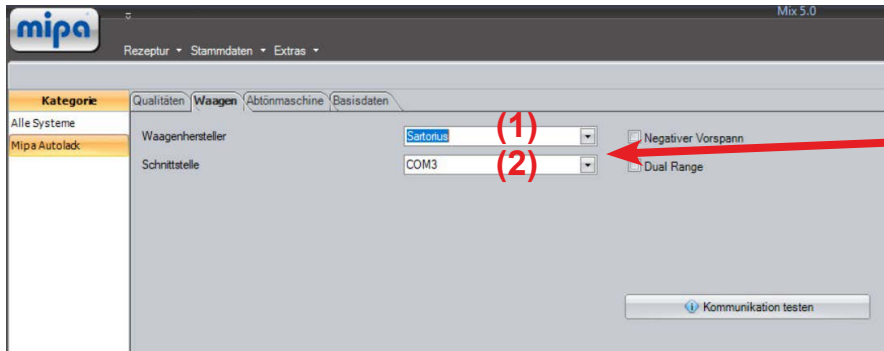Here you can select the qualities you intend to use.
They will appear then on the formula display.

Scales

Here you can define the scale manufacturer **(1)** and the corresponding interface **(2)** COM 3 is mentioned here as an example, it may vary!

For Sartorius-scales, it is not necessary to set specific parameters as the scale is detected automatically by using the XBPI communication protocol of the manufacturer.

Please just specify the manufacturer's COM-port.
Regarding all scales, which are not automatically detected, you can find here a selection with verified settings on the table below. If a scale cannot be used with one of the combinations listed below, please refer to chapter "Troubleshooting".

Scale	Transfer rate	Data bit	Equality bit	Stopping bit
Sartorius PMA - Series	2400	7	Odd	1
Sartorius FGB - Series	1200	7	Odd	1
Mettler PS/7	4800	7	Even	1
Mettler Panda 7	9600	8	None	1

Please select "Sartorius" only for both mentioned devices. There are further program features related to this setting and available with these devices. For more information and details, please refer to the specific chapter.

Basic data
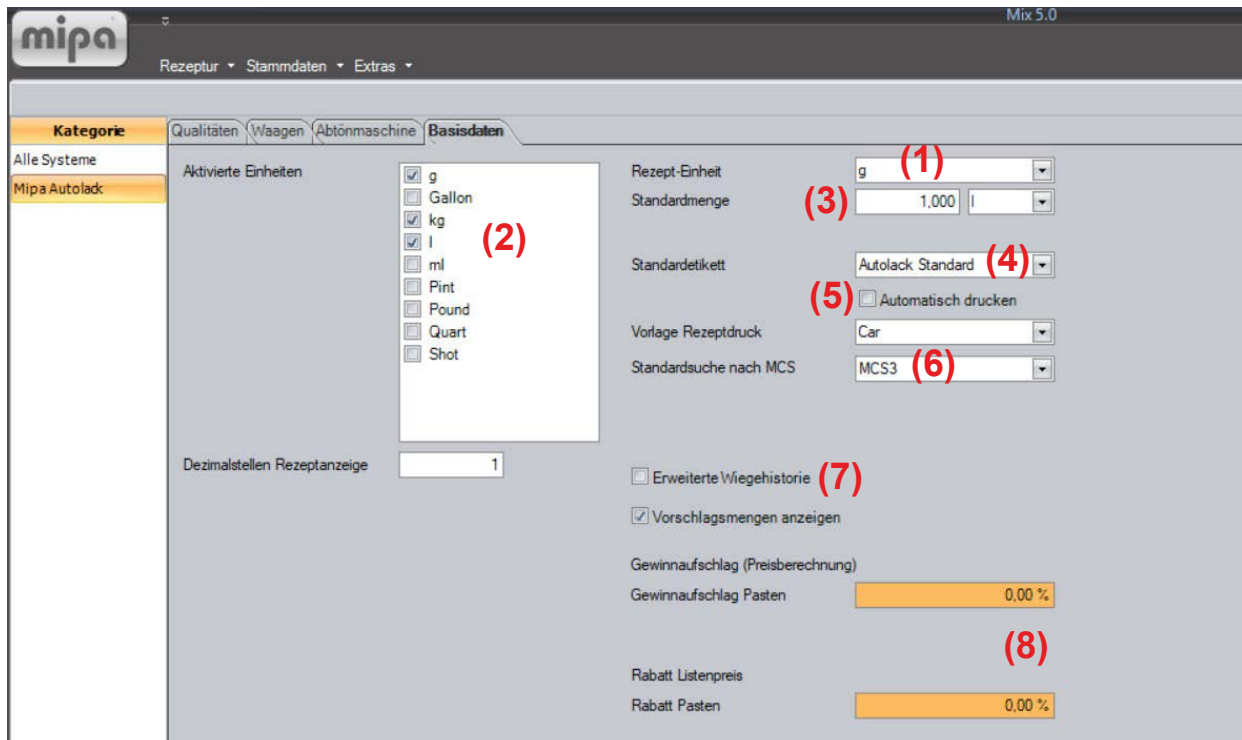
You can select the unit for display of your specific formulation **(1)**. For this purpose, please activate the necessary units! **(2)** Furthermore, you can set a standard tin **(3)** and a standard label **(4)** You can activate the function if you want to print automatically the label after the weighing process **(5)**. Here you can set MCS-2 as default search **(6)**. You can save the customer formulations with the functionality "Advance weighing history"**(7)**

IMPORTANT! These settings have to be done just once for every system (e.g. Auto-lack/PMI)! (8) Markup / Discount (this has a global validity and will be considered by the pricing process)

Spectrophotometer / SSP Search and sorting program (X-rite)
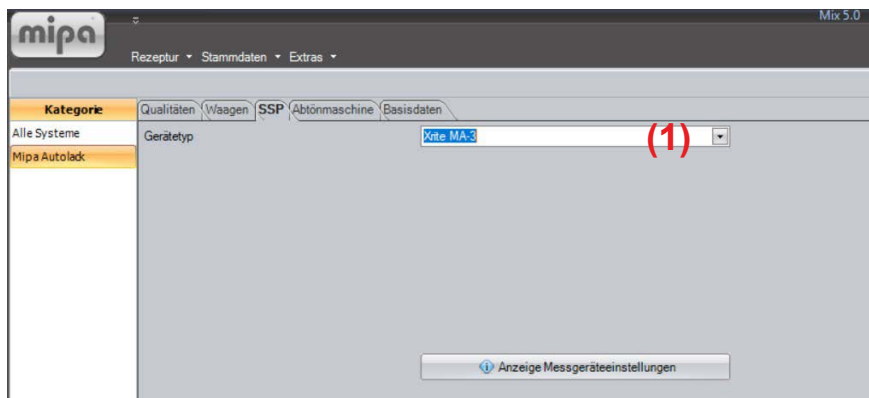
You can set a spectrop-hotometer in system "MIPA Autolack". Please enter the related device type **(1)**

You have to activate this module in order to use the spectrophoto-meter functionality!

Tinting machine
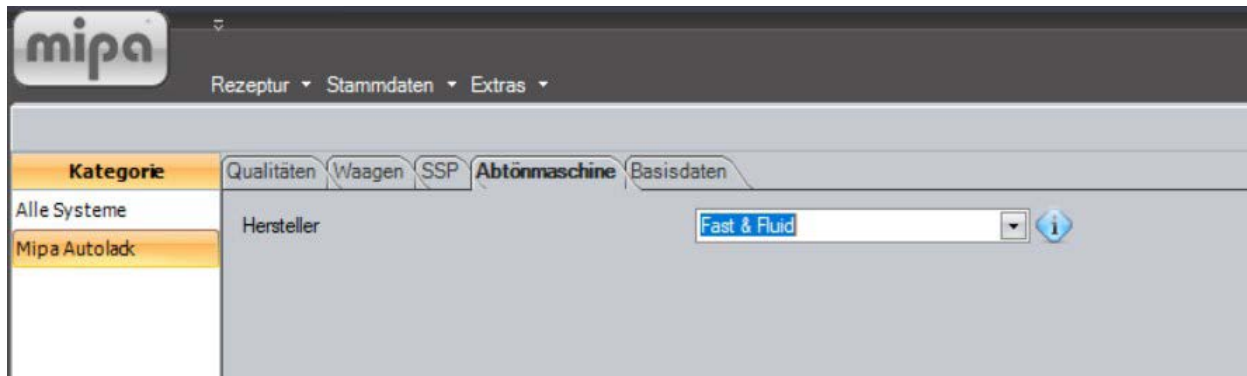
Please note! Only an authorized MIPA technician is allowed to change these settings! Here you can find the complete control system of your tinting machine!

In order to search the scanner for MCS I or MCS II, please consider the following criteria:

Create the scanner start character → @ (Default MIPA! The program detects this as a scanner input and not as a keyboard input! If you change the header, you also need to reprogram the scanner!)
The program has the ability to read the barcodes printed on the colour cards and start searching automatically. However, in order to be able to carry out the colour card search successfully via the scanner, special criteria have to be fulfilled.

In this software a clear attribute has to be set, so you can select whether it is a scanner input or not. For this purpose, set a "scanner start character" in the program settings.The use of the "@" sign is recommended, as this sign does not produce any relevant connection as a starting letter of other search criteria like manufacturer, colour code and colour name.You can therefore ensure the clearness to 100 %. The use of other explicit signs (e.g. #, ~, §, $, &) is also possible.

Setting a start character in the program is just a first step. You then have to configure the hand scanner you use as well. To place the start characters as default during the transmission of scanning data, you have to program these in the device control.

A MCS-no. will be transmitted with the suggested start character AFTER a correct programming of the scanner, as described in the example below:

      WITHOUT start character: O-3-03110.500
   WITH start character: @O-3-03110.500

A specific hand scanner configuration instruction by Jarltech is as annex here attached.

In case of hand scanner of other manufacturer, please refer to the specific programming instructions provided!

In order to use prices and price groups' functionality, you have to update raw material prices and create price groups first.

In order to update raw material prices, please proceed as follows:
Register as "expert", select "Master data" → "Raw materials". Following window will open on your screen:
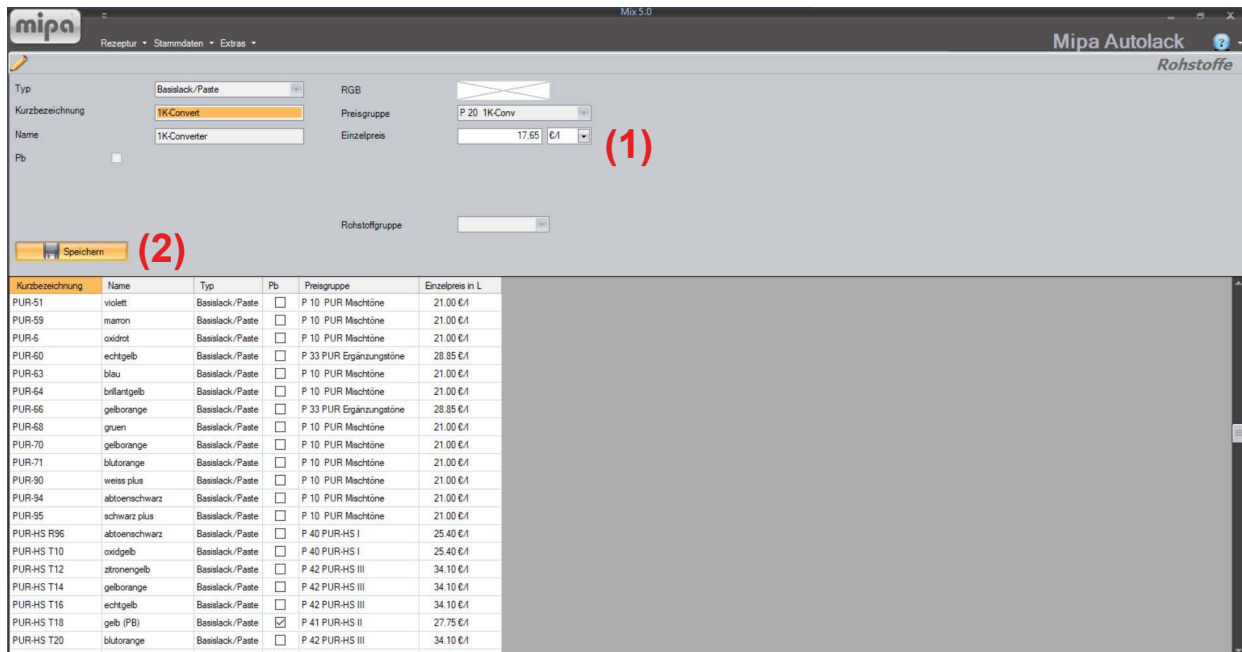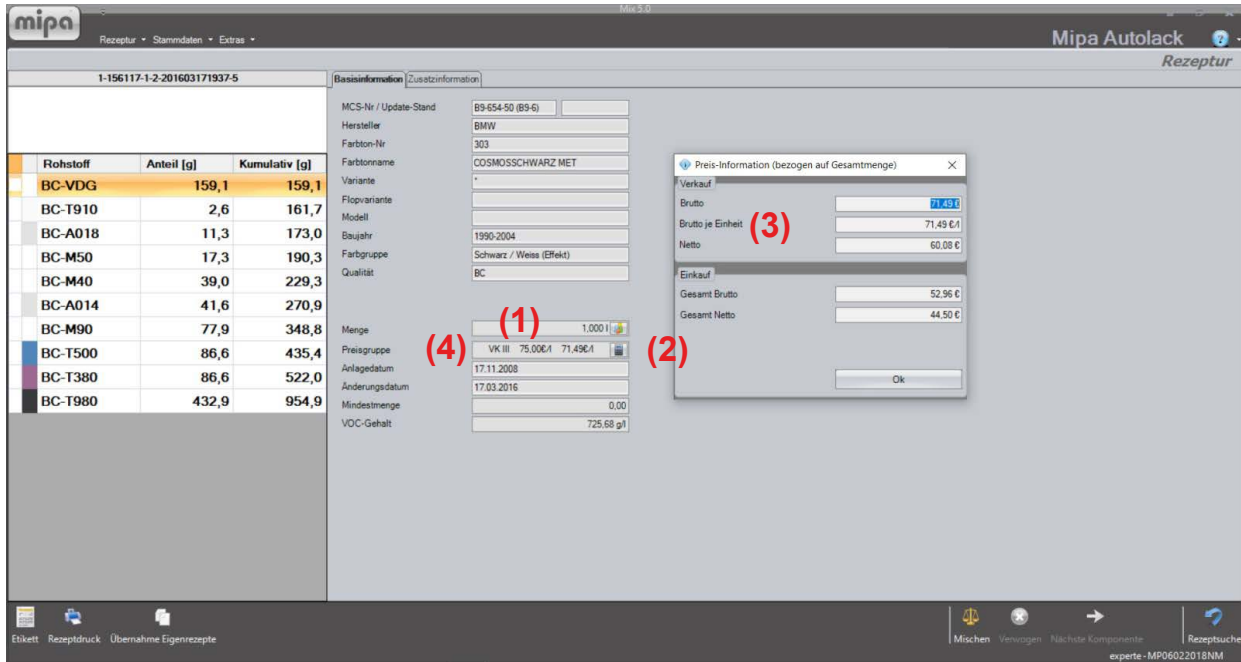

Here you can enter the unit price **(1)** of every product. Then click on "Save" **(2)** in order to save your changes.

To create a price group, click on "Extras" → "Price maintenance": the following window will open:


Here you can enter prices of your specific purchase price groups.

Here you can enter prices of your specific selling price groups.

In the formulation-window, you can display the retail price **(1)** and the related price group **(2)** by simply clicking on the calculator-icon. Please note! The price in the price group is indicated per LITER! **(3)**
The price group depends on the NET SELLING PRICE **(4)**
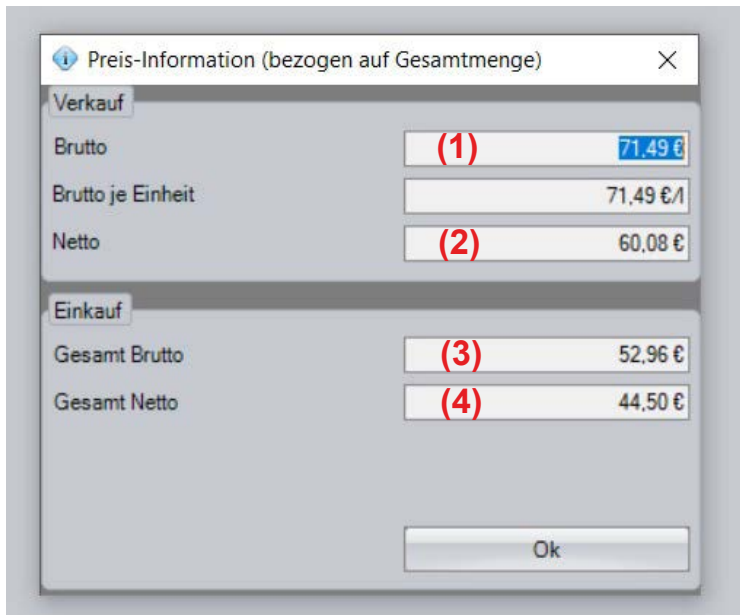
You can display different prices by simply clicking on the calculator-icon:

(1)   Gross sell price (incl. VAT + profit margin)
(2)   Net sell price (purchase price + profit margin)
(3)   Gross purchase price (incl. VAT)
(4)   Net purchase price

All prices are based on the total amount / ready packages!

If "Stock administration" is activated, you can manage stocks as follows:
Click on "Extras" → "Warehouse" → "Stock administration" and the following window will open:

1. Mark the product **(1)** you intend to manage, e.g. BC-004.

2. Select the unit **(2)** you want to stock up.

3. The minimal stock **(3)** determines which amount of product should always be available on stock (based on specific raw materials consumption). After editing the minimum or actual stock, click on 'save' **(7)** to save your changes. In the case there is not enough raw materials in your stock, a warning message will appear on the search of your required formulation **(4)**. The necessary stock required will be deducted from the actual stock **(5)** after every mixing is completed. If the actual stock gets under the minimum quantity set after mixing, a warning message will appear **(6)**.
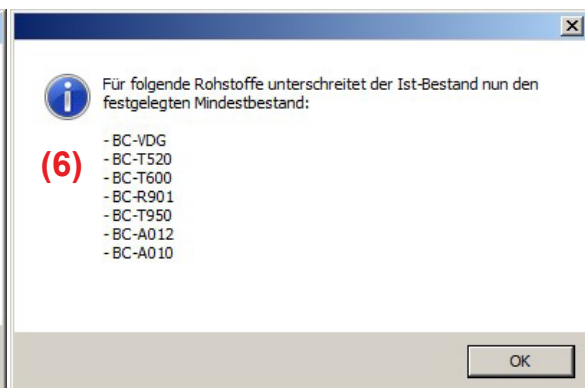
If you log-in as "experte", under "Formulation" → "Weighing historty"
"Paste consumption" you can display following values:

Weighing history

| Qualität	Datum **(7)**	C	QVariante	Glanzgrad	Menge	Var	SF	Hersteller **(1)**	von	bis	HBW	Status	Farb-Nr.	Farbtonname
BC	24.02.2010 08:00	1			1177.41 g			OP	1991	1991		X	480	KASTANIENBRAUN MICA
BC	24.02.2010 08:34	1			4718.07 g			OP	1991	1991		X	480	KASTANIENBRAUN MICA
KH	24.02.2010 11:04	1			1035.8 g			RAL			8,00	X	5001	GRUENBLAU
OC	24.02.2010 10:54	1			1153.2 g			RAL			8,00	X	5001	GRUENBLAU

Here you will see MIPA tinted formulations. You can display the results per manufacturer **(1)** / date **(7)**.
To start your search, please filter per one or more of following criteria:

(1) Manufacturer

(2) Quality

(3) Colour no.

(4) Colour name

(5) MCS –no. / MCS –no. 2

(6) Scanner – Input

(7) Date from/to

(8) Model

(9) Year of construction

(10) Colour group

(11) Lead (PB)

(12) Advice (e.g. search per "Customer name")

(13) Formulation number

Advanced weighing history

If "Advanced weighing history" is activated you will be asked after the mixing process is completed to enter customer details in order to be able to save the weighing history:
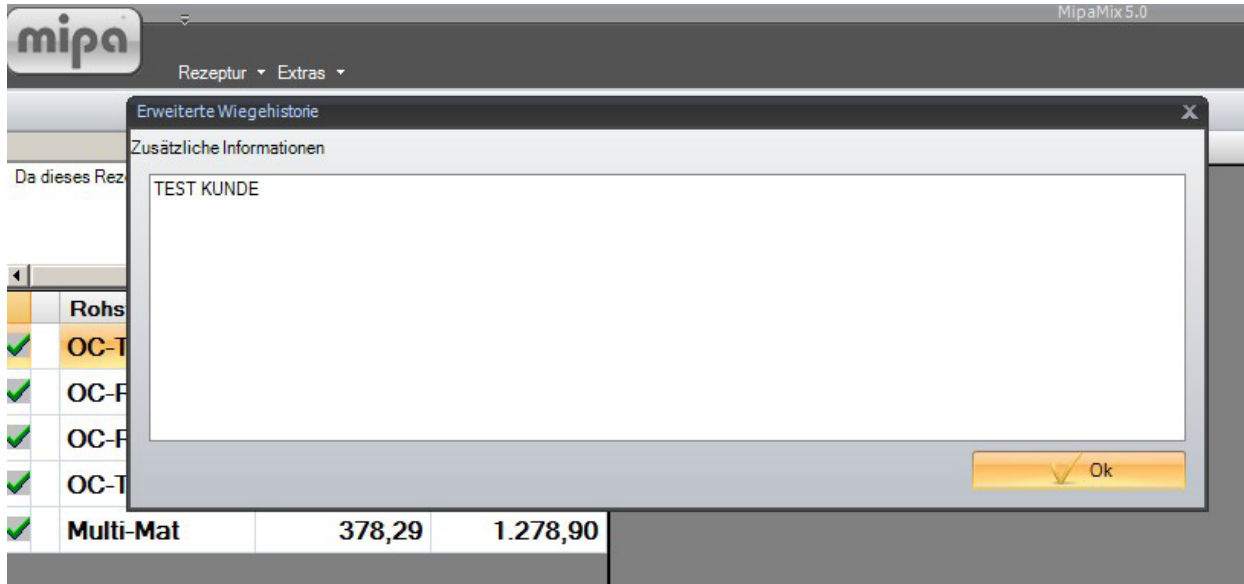
Under "Formulations" → "Weighing history" you can find the history you saved.
Under "Advice" **(1)** you can search through different inputs:
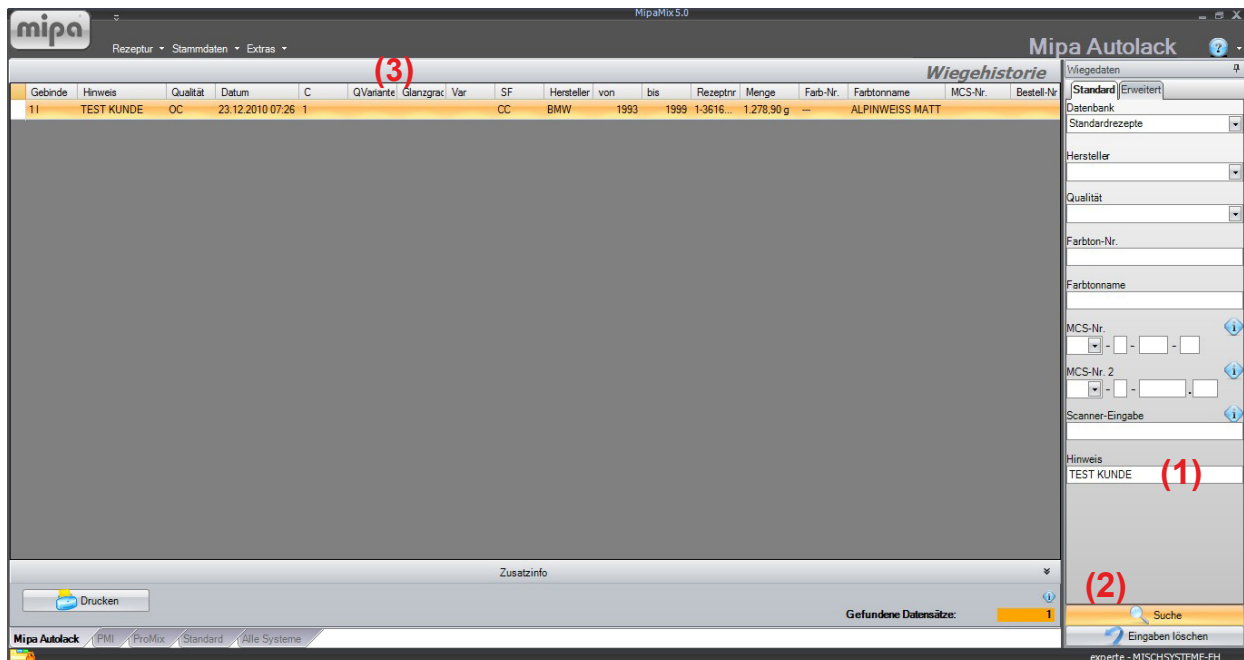
For example, please enter TEST KUNDE, *TE* or *te* or select one of the other possible filters such as manufacturer or date and start your search **(2)**, then you can display your related search results **(3)**. Select the desired formulation as usual and then start the mixing process.

Creation of own formulations

You can also create or modify your own formulations with "Formulation maintenance" and maintain them as your own formulations.
Go to "Formulation" → "Formulation maintenance" → and following window will open:

In order to create a new formulation, first click on "New" **(1)** and select the colour group **(2)**. In the "Info1"-field **(3)** or "Info2" **(4)** you can enter, for example, the related customer name. Confirm your entries with "Save" **(5)**.
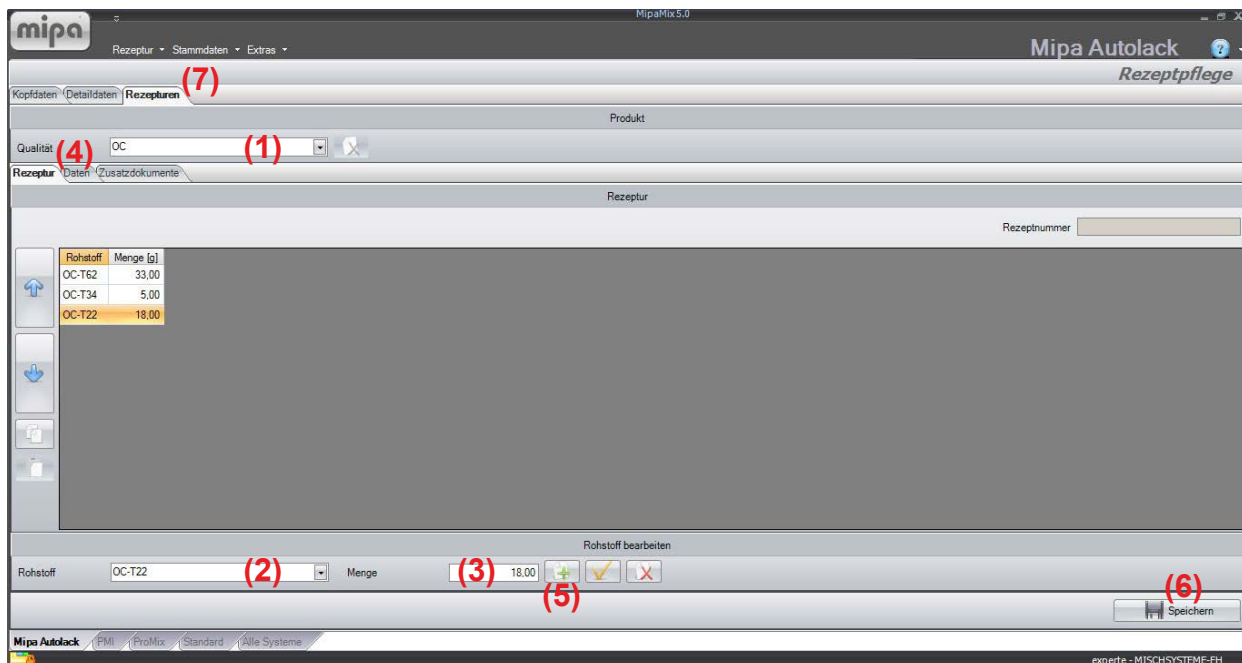
Please open the "Detailed data"-slider and enter/update the following data:

(1) Manufacturer
(2) Colour name
(3) Version
(4) Year (from / to)
(5) Model
(6) Flop version
(7) Colour no.

Please confirm your entered data with "Save" **(8)**.

Open the slider "Formulations" **(7)** and enter your formulation data:

(1) Quality (here you can select the quality you require for your formulation)

(2) Raw material (here you can select the necessary raw materials from a control box)

(3) Amount (here you can enter the necessary amount of every raw material. To add a raw material, just click on the "**+**"-button **(5)**

**(4)** Data (here you can save notes regarding your formulation)

Once you complete your entering process, click on "Save" **(6)** to confirm/save your entries.
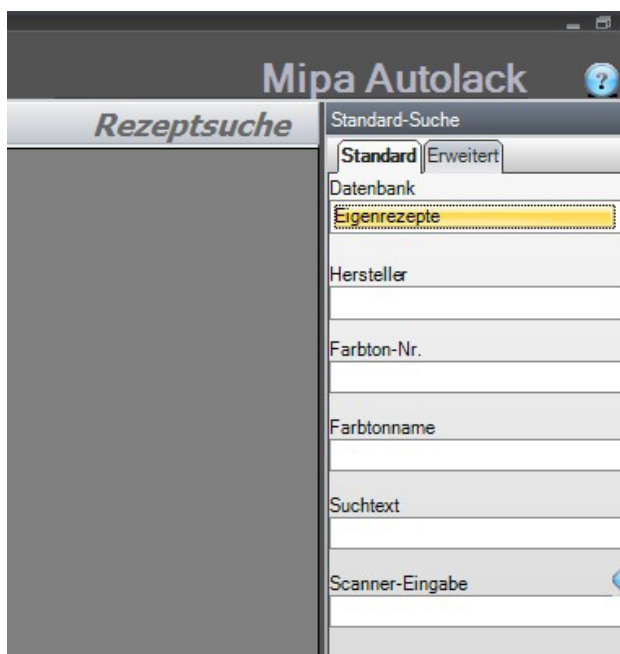
Your created formulations will then be displayed on "Search formulation" mask (F3) or in the mask "Formulation maintenance" (F4). In the „Search formulation"-mask, change the selection "Database" → "Standard" in "Database" → "Own formulations" and you can then start your search as usually.

In the "Formulation maintenance"-mask, click on "Search" **(1)**, then you can start your "Search formulation" **(2)** in order to edit your stored formulations:
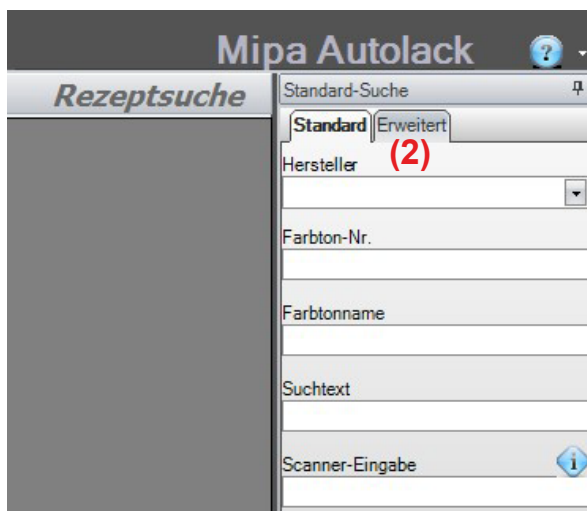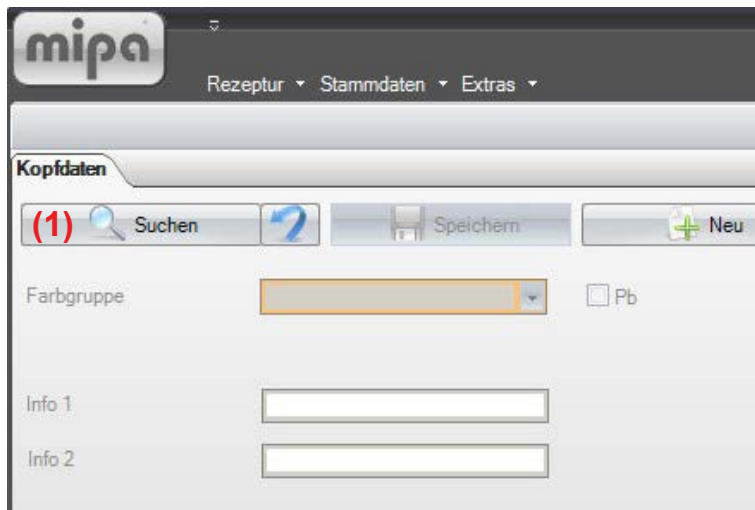
Consumption of raw material:

Rohstoff	Bezeichnung	Verbrauch (1)	Seit (2)	Letzte (3)	2010-02 (4)
BC-004	Effektzusatz	0.073 l	24.02.2010 08:00	24.02.2010 08:34	0.073 l
BC-A012	metallic sehr fein	0.019 l	08.02.2010 08:14	08.02.2010 08:14	0.019 l
BC-A014	brilliant metallic fein	0.235 l	08.02.2010 08:14	08.02.2010 08:14	0.235 l
BC-M11	perlgold	0.334 l	24.02.2010 08:00	24.02.2010 08:34	0.334 l
BC-M30	perlrot	0.521 l	24.02.2010 08:00	24.02.2010 08:34	0.521 l
BC-T140	gelborange	0.106 l	08.02.2010 08:14	08.02.2010 08:14	0.106 l
BC-T310	oxidrot	0.033 l	08.02.2010 08:14	08.02.2010 08:14	0.033 l
BC-T350	marron	0.131 l	08.02.2010 08:14	08.02.2010 08:14	0.131 l

Here you can have an overview of the raw material consumption.

(1)   Total consumption

(2)   First use of raw material

(3)   Last use of raw material

(4)   Overview of raw materials consumption per month