

# KCC AUTOFINISH Computer Color Matching System

Improved convenience for  
metallic / pearl color matching

Powerful AI matching  
and correction capabilities

Online color matching  
support



## COLOR-NAVI Plus 2024 Manual



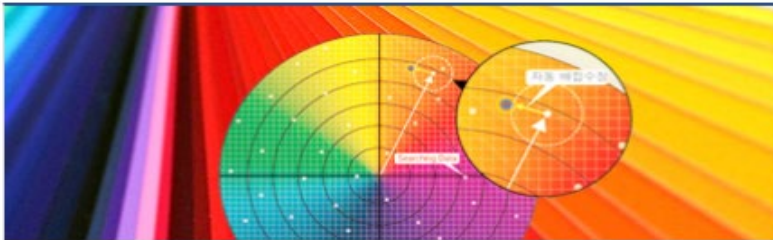
[www.kccworld.co.kr](http://www.kccworld.co.kr)  
KCC REFINISH PAINT EVERYWHERE

AUTOFINISH | **KCC** Paint

## Advantages of the COLOR-NAVI System

Unlike traditional color retrieval systems (CCS), the COLOR-NAVI system offers more. It stores color matching formulas, mix ratios, and unique data for each color in the COLOR-NAVI program. With its AI-powered functionality, it suggests optimized formulas tailored to user needs, ensuring exceptional accuracy. Additionally, it features robust simulation capabilities, allowing users to predict color changes in advance.

## Why Choose KCC Refinish CCM?



### Necessity

The next-generation product enhances traditional CCS with an automatic color mixing feature (batch development), enabling precise color matching even for minor shades.

### Economy

Reduces repeated color matching and saves time.  
Efficiently manages and stores color-matching results.



### Productivity

Facilitates easy creation of accurate color formulas and personalized usage.  
Offers a user-friendly process for color matching.

### Customer Satisfaction

Delivers reliable color matching solutions with enhanced accuracy and personalized settings.

## The Simple and Accurate Color Mixing Flow of KCC COLOR-NAVI



Measure the color of the target vehicle or sample using a spectrophotometer.

Compare colors by measuring the sample color book or color chips provided by KCC.

Use stored color (KCC formula or custom formula) and automatically adjust color with the COLOR-NAVI S/W.

Check the KCC COLOR-NAVI recommended formula and confirm the color with a spray-out test.

Paint the vehicle after verifying excellent color matching accuracy.

Vehicle release

## KCC COLOR-NAVI Components (※ PC and scale not included)



### Portable Spectrophotometer

- Device connection via USB
- USB-C Type (Li-ion battery)
- Touchscreen capability
- Convenient for portability



### Minimum PC Requirements

- CPU: Intel®Core™i5-10500 (3.10GHz) or higher
- RAM: 8GB+
- Storage: 256GB SSD + 126GB backup
- OS: Windows 7, 8, 10, 11



### COLOR-NAVI S/W

- Similar Color Search
- Automatic Color Mixing (Metallic, Solid)
- RM Color Matching
- Pearl Color Matching



### Electronic Scale

- Measurement in 0.01g Units

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## Safety Precautions

To ensure the safety of users and prevent property damage, please read carefully and use the product correctly.

### Warning

**Do not place the spectrophotometer or batteries near or inside heat-generating appliances (heaters, microwaves, etc.), cooking appliances, or high-pressure environments.**

- This may cause deformation, overheating, explosion, or fire.
- Battery leakage or damage may occur.

**Do not subject the spectrophotometer or batteries to strong impacts, pierce them with sharp objects like pins or nails, or disassemble them.**

- This may result in electric shock, explosion, or fire.

**Do not use the product during thunderstorms.**

- The risk of lightning or fire may damage the product or cause electric shock.

**If unusual smells, noises, foreign substances, or smoke come from the product or its internal battery, stop using the product immediately and contact a KCC sales representative.**

- This may result in electric shock, explosion, or fire.

**Keep the product and batteries away from children, infants, or pets to prevent chewing or biting.**

- This can damage the product or cause explosions.
- There is a risk of choking due to small parts.



## Caution

Failure to follow these instructions may result in user injury or property damage.

**Do not use the spectrophotometer with lighting or flash functions directly in front of the eyes of people or animals.**

- This may cause vision impairment.

**Do not drop the spectrophotometer, charger, or battery, or subject them to heavy impact or place heavy objects on them.**

- The product may be damaged or malfunction.
- Bending or twisting the product may damage its appearance and internal components.

**If the spectrophotometer screen is broken, do not use it in that condition.**

- If the glass or acrylic is broken, it may cause injuries to hands or face. Please contact KCC for repair before use.

**Do not modify, disassemble, or repair the product or its accessories on your own.**

- This may result in electric shock.
- Free repair services will not be provided for products modified, disassembled, or repaired by the user.  
Repairs should be carried out by KCC.

**Do not paint or attach stickers to the spectrophotometer.**

- Depending on individual constitution, paint or stickers may cause allergic reactions, itching, eczema, or swelling.

**Do not place or store the spectrophotometer on a slanted surface.**

- It may fall, resulting in damage or malfunction due to impact.

**Do not use the product for purposes other than its intended use.**

- This may cause the product to malfunction.

**When connecting a USB cable to the spectrophotometer, ensure the cable does not get caught on arms or nearby objects.**

- This may cause injury.

**Do not use or store the spectrophotometer or batteries in areas with extreme temperature changes or high humidity, such as bathrooms.**

- Moisture or liquids can damage the product's components and circuits, leading to malfunctions or electric shock.
- The product may fail to operate normally, and there is a risk of battery malfunction, burns, or explosion.
- If the product gets wet, do not turn it on. Dry it with a towel and contact KCC for repair.

**Avoid using the product near speakers, large motors, strong magnetic fields, high-voltage lines, or radio towers.**

- Electromagnetic waves may cause the product to malfunction.

**Use the spectrophotometer within a temperature range of 10°C to 40°C(50°F - 104°F) and do not store it in extremely low or high temperatures.**

- Storing it in high-temperature environments, such as saunas or parked cars in summer, may cause deformation, internal damage, LCD malfunctions, or explosions.

**Do not store the spectrophotometer with metal objects such as coins, keys, or necklaces.**

- This may cause deformation or malfunction of the product.
- If metal contacts the battery charging terminals, there is a risk of fire.

**Do not place the spectrophotometer in areas with strong magnetic fields or where magnetic interference is present.**

- Magnetic fields may cause the product to malfunction or the battery to discharge, affecting its use.
- Magnetic products such as credit cards, phone cards, bankbooks, and tickets may have their data corrupted by the product's magnetic field.

**If the spectrophotometer becomes excessively hot, stop using it temporarily.**

- Prolonged contact with heated devices may cause burns, such as red marks or pigmentation.

**When cleaning the spectrophotometer, do not spray water or use strong chemicals (benzene, thinner, etc.) or harsh detergents.**

- These can discolor or corrode the product's surface, and there is a risk of fire or electric shock.
- Clean the product, battery, and charger gently with a cotton swab or soft cloth.
- Do not clean or allow foreign substances, solvents, or water to enter the spectrophotometer's interior or terminals.  
Keep the protective cover on when not in use.

**Avoid heavy smoke or fumes.**

- This may damage the product's exterior or cause malfunctions.

**Use caution when operating the product in areas with other electronic devices.**

- Most electronic devices emit electromagnetic signals, which may interfere with or be affected by the product's electromagnetic waves.

**When connecting cables to the spectrophotometer, insert and connect them in the correct orientation.**

- Forcing or incorrectly inserting cables may damage the ports, connectors, or components.

**Always use or store the spectrophotometer in a clean environment and prevent dust or foreign substances from entering the device.**

- Dust or foreign substances may cause malfunctions or pose a risk of fire or electric shock.

**Be cautious when using the spectrophotometer while walking or moving.**

- Collisions with obstacles may result in injuries or accidents.

**Do not format or overwrite the operating system (OS, e.g., Windows) on the PC where the Color-Navi program is installed.**

- This may disrupt the program due to changes in the installation path or license recognition failure.
- Previously worked files and personal databases may be deleted and become unusable.

**Avoid installing suspicious programs on the PC where the Color-Navi program is installed.**

- Viruses may interfere with or cause errors in the Color-Navi program.
- Other programs running on the PC's memory may prevent the normal operation of Color-Navi.

**Do not lose the Lock-Key for the Color-Navi program.**

- Only one Lock-Key is provided per program license, and the program will not function without it.
- In case of loss or damage, you must contact KCC, and reissuance will incur a cost.  
(Reissuing a Lock-Key is a complicated and costly process, so take care to prevent loss or damage.)
- If the PC is damaged, upgraded, or replaced, always contact KCC in advance.

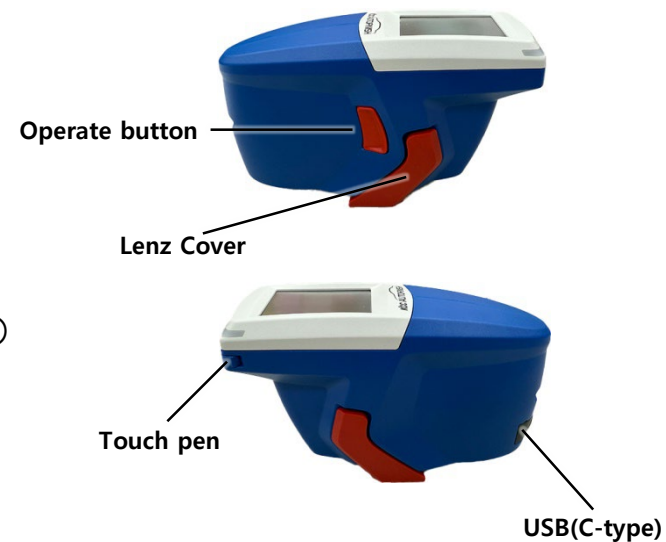


# 1. Installation

1. Checking Components
2. Installing the Program

The images of the components may differ from the actual products, and some items are subject to change depending on circumstances.

### BYK Micro\_Tri\_effect



- |   |   |
|---|---|
| 1 | Power supply plugs  |
| 2 | Instrument  |
| 3 | Power supply with proprietary plug for docking station,<br>Safety wrist strap |
| 4 | Docking station   |
| 5 | Combined white and green standard   |

Calibration tile

A KCC staff member will handle the program installation following the steps outlined below.

☆ Program Installation:

1. Copy the Program to the PC

2. Check the Created Folders After Copying

- C:/CI\_KCC

- C:/CI\_SUMIX

- C:/CI\_CARGO

- C:/OfficeColorScience

※ Create a shortcut for the CI\_KCC2.exe file on the desktop → Place it in the C:/OfficeColorScience/CI\_KCC folder

3. Connect the Spectrophotometer to the PC

4. Run CDM2.04.06.exe

5. Install USB 3.0 Driver

- Run setup\_bykusbcom 3.0.0.5.exe

6. Install BYK Driver

- Run Setup.exe, MicroTRicolor\_USB\_Bulk\_Installation\_CD.exe

7. Verify the Spectrophotometer Connection

- Run SearchBykInst.exe → Located in the C:/Program files(x86)/Bykware folder

- Launch the spectrophotometer verification program and click the `Search` button to confirm the connection

8. Connect the HASP-Key (Lock-Key)

- Install the HASP Driver HASPUserSetup.exe

9. Data Backup

- To prevent loss due to PC failure or viruses, copy the installation folders to the D drive or another location.

(Folders to Copy: C:/CI\_KCC, C:/CI\_SUMIX, C:/OfficeColorScience)

## 2. Usage

1. How to Use the Spectrophotometer
2. Solid Color Matching
3. 2Coat (Metallic) Color Matching
4. 3Coat Color Matching
5. Effect Mode (Candy / Special Color Matching)
6. Waterborne RM(WT5000) Color Matching
7. Database Management
8. Saving Custom Formulas
9. COLOR-NAVI Add-on
10. Online Color Matching Request (COLOR-NAVI PLUS Only)

## ① How to Use the Spectrophotometer

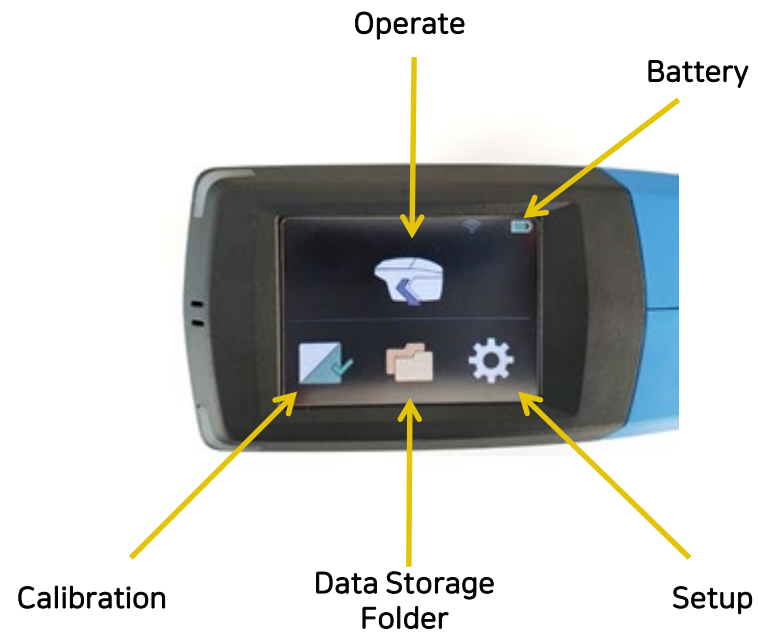
### Spectrophotometer Specifications

BYK Micro Tri Effect	
Light Source	1 white power LED * 22 interference filters
Measuring Geometry	45° illumination, 15°, 45°, 105° aspecular viewing
Measuring Area	17mm diameter
Spectral Range	400~700 nm, 10nm resolution
Repeatability Color	0.03ΔE* (20 measurements on white tile)
Reproducibility Color	0.3ΔE* (average on 12 BCRA tiles set at 45°)
Calibration Cycle	White : Monthly
	Green : Weekly
Measuring Time	3 seconds
Operate	Touch screen, Operate button
Measuring Pin	4 pins (3 or more of the 4 pins shall be in contact)
Temperature Range	10-40°C (50-104°F) for operation
	0-60°C (32-140°F) for storage
Relative Humidity	Up to 85%, 35°C (95°F)
Weight	Approx. 550g (1.21 lbs)
Power Supply	Li-Ion battery pack (2900mAh) - charge with USB connection
Interface Device	USB Type C

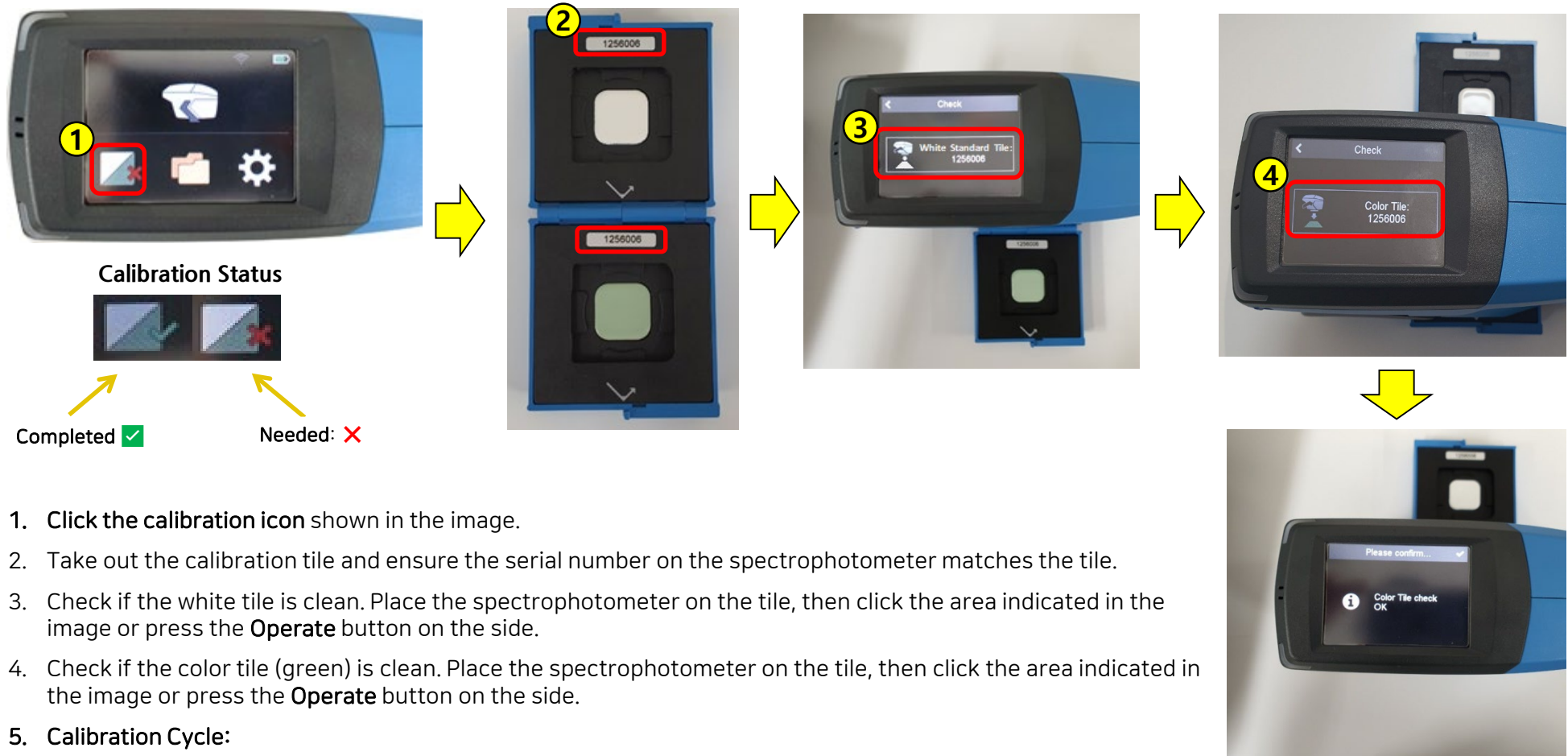




### Spectrophotometer Home Menu



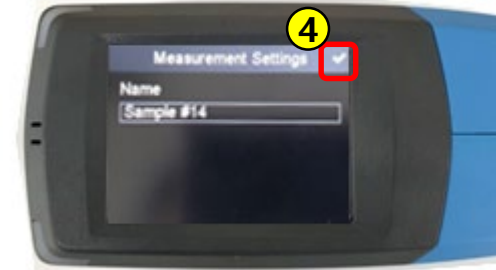
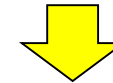
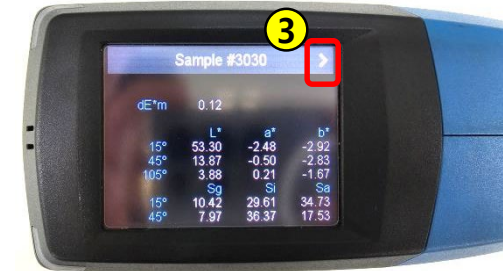
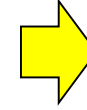
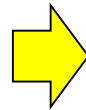
# ① How to Use the Spectrophotometer Calibration Instructions



*Note: If 30 days have not passed since the white tile calibration and only the color tile requires calibration, calibrate only the color tile.*

# ① How to Use the Spectrophotometer Color Measurement

At least 3 pins (green) must contact;  
measurement fails if more than  
2 pins (red) don't contact.



1. Click the **Operate** button on the side or the spectrophotometer button on the screen.
2. Ensure the pins on the screen are in **green contact** and click the **Operate** button on the side or the spectrophotometer button on the screen.
  - *In spectrophotometer settings, enabling LiveView allows checking the particle image of the measurement area.*
3. Click the **check button** at the top right of the screen or press the **Operate** button on the side.
4. Repeat steps 2-3 **three times** (1 of 3, 2 of 3, 3 of 3). After taking three measurements, click the **check button** at the top right of the screen or press the **Operate** button on the side to save the average value.
  - *For accurate average measurement, measuring the same spot consecutively is not allowed.*

## ① How to Use the Spectrophotometer

### Saving Measurement Data



1. After completing the measurement, click the **name input field** indicated in the image.
2. Enter the desired **save name**.
3. After entering the name, click the **check button** at the top right or press the **Operate** button on the side.
4. Confirm the save name and click the **check button** at the top right or press the **Operate** button on the side to save.

## ① How to Use the Spectrophotometer

### Deleting Data

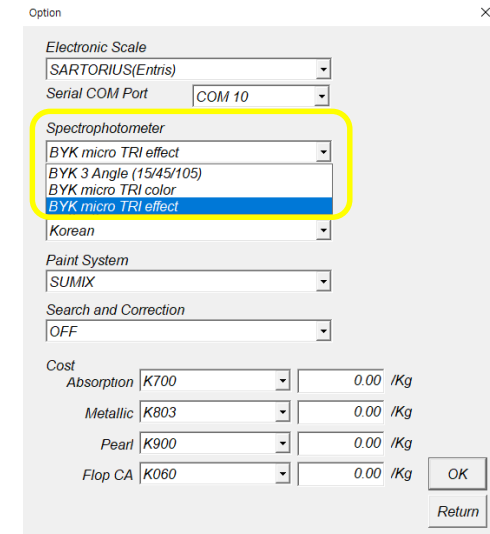


1. Click the **folder icon** indicated in the image.
2. Select the data to delete by clicking the **checkbox** in front of each item.
3. Click the **trash bin icon** at the top right as shown in the image.



# ① How to Use the Spectrophotometer

## Selecting a Spectrophotometer

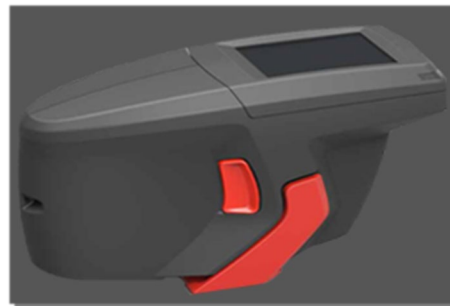


Double-Click the KCC logo to select the spectrophotometer you are using.

Check the spectrophotometer image below and select the model identical to your device.



BYK 3 Angle(15°/45°/105°)



BYK micro TRI color

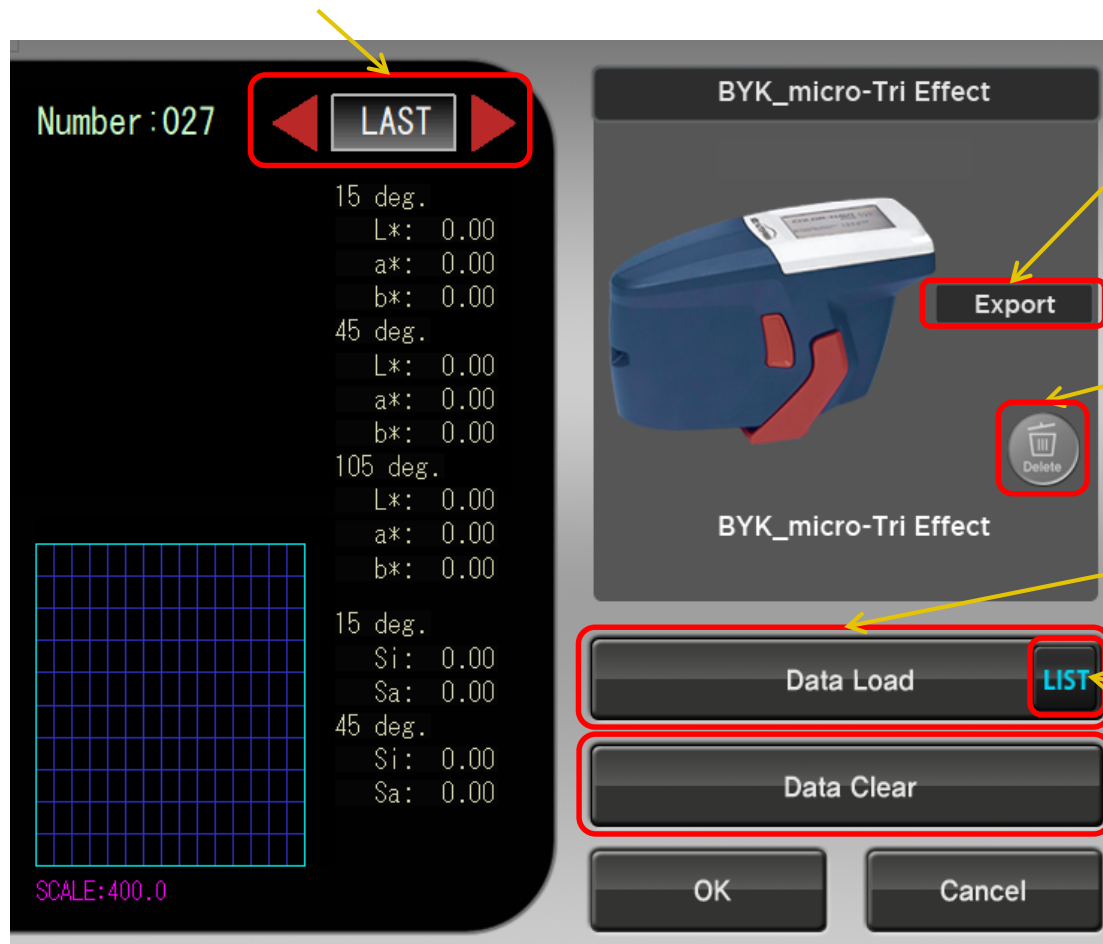


BYK micro TRI effect

## ① How to Use the Spectrophotometer

### Loading and Exporting Data from the Spectrophotometer

- Use the left and right buttons to select saved data on the spectrophotometer.



- Export : Send measurement data (used for online color matching requests)

- Delete: Delete all data stored on the spectrophotometer.

- Data Load: Load data from the spectrophotometer.

- LIST: View the data list on the spectrophotometer (up to 20 entries).

- Data Clear: Delete loaded measurement data.

Number : 027

LAST

15 deg.  
L\*: 0.00  
a\*: 0.00  
b\*: 0.00

45 deg.  
L\*: 0.00  
a\*: 0.00  
b\*: 0.00

105 deg.  
L\*: 0.00  
a\*: 0.00  
b\*: 0.00

15 deg.  
Si: 0.00  
Sa: 0.00

45 deg.  
Si: 0.00  
Sa: 0.00

SCALE: 400.0

BYK\_micro-Tri Effect

Export

Delete

BYK\_micro-Tri Effect

Data Load

LIST

Data Clear

OK

Cancel

[illegible]

- 22

## ⇒ Mode Selection Features (Solid / Metallic / 3Coat / Effect / RM)



- **M Metallic** : Used for mixing metallic and solid colors.



- **3C 3-Coat** : Used for mixing 3Coat colors.



- **RM** : Used for searching Ready Mixed Product(Factory Pack) similar products and additional color adjustments.



- **Effect Mode** : Used for mixing candy and special effect colors.

## ② Solid Color Matching

**1** Paint Type | SUMIX

Working No. | Number: 027

Correction No. |

SCALE: 4.0

Simulation Result

P	0.00 USD/Kg
1:	0.00 (g)
2:	0.00 (g)
3:	0.00 (g)
4:	0.00 (g)
5:	0.00 (g)
6:	0.00 (g)
1:	0.00 (g)
2:	0.00 (g)
3:	0.00 (g)
1:	0.00 (g)
2:	0.00 (g)
3:	0.00 (g)
Binder	100.00 (g)
Color	0.00 (g)
Total Weight	100.00 (g)

Car Maker :  
Color Code :  
Variant No :  
KCC-Code :

**2** Binder(%) | 60.00  
Target Weight | 100.00

**3** Auto Match(Solid)

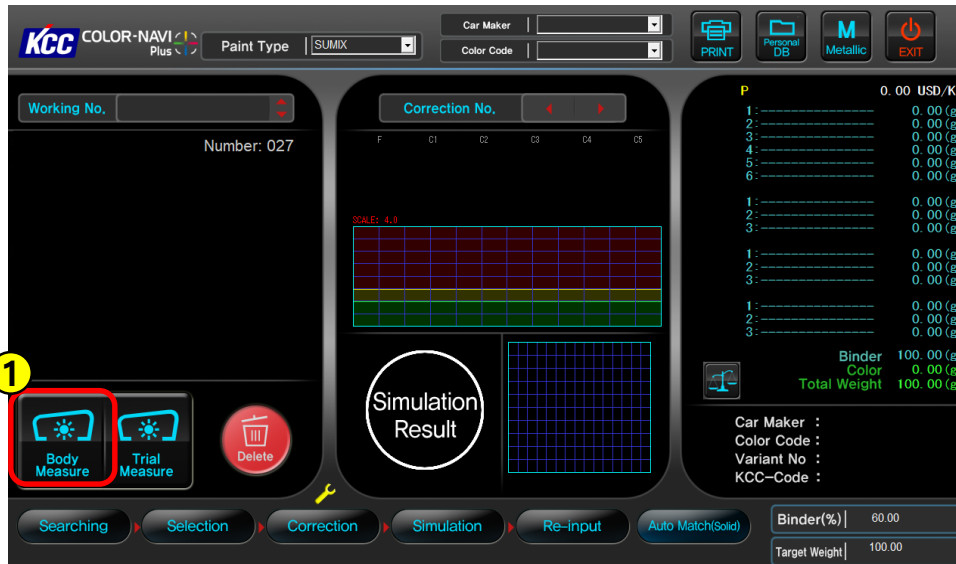
Searching Selection Correction Simulation Re-input

1. Select the paint type to mix: **BAROMATCH**(Solvent-borne) or **SUMIX**(Water-borne)
2. Enter the required paint weight (g).
3. Input the binder ratio in the paint (% by weight).

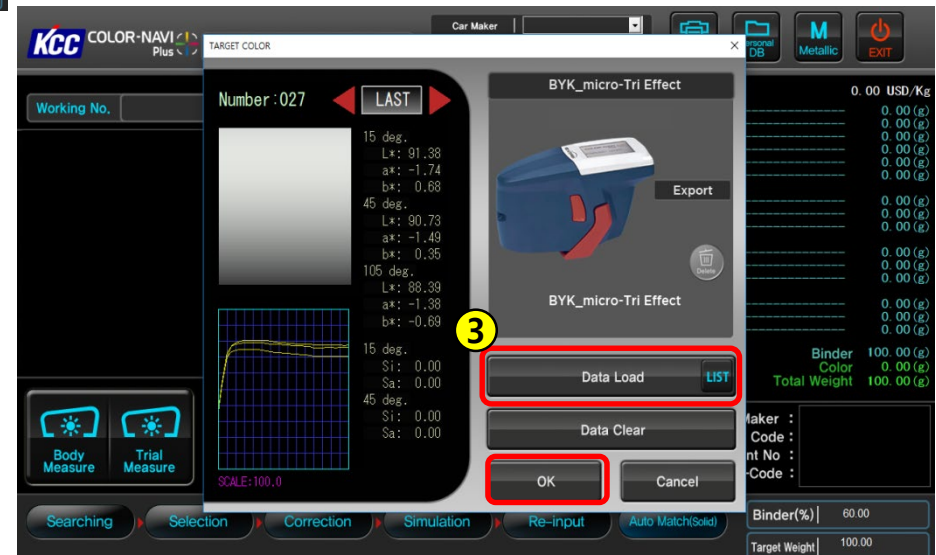


## ② Solid Color Matching

### Steps for Body Color Measurement

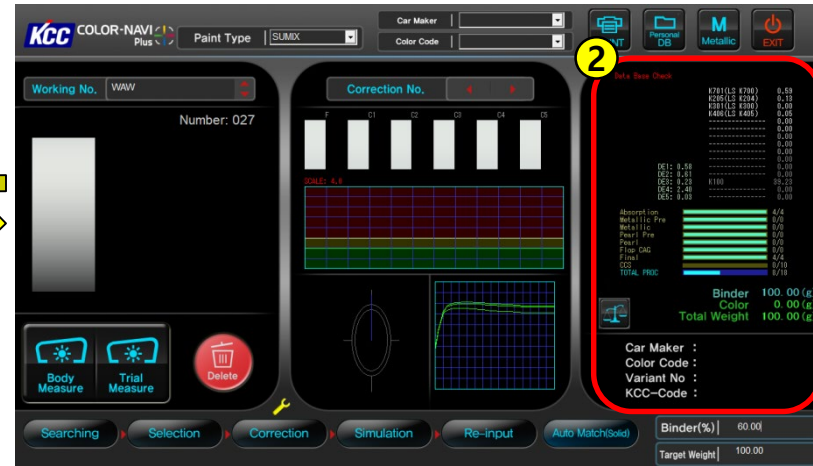
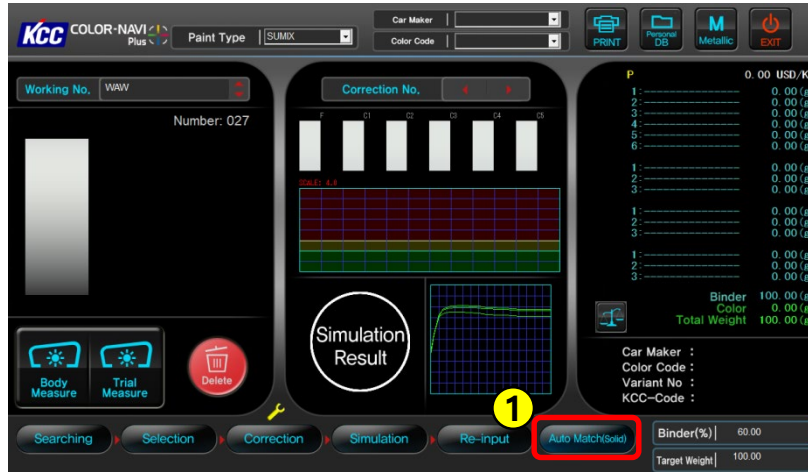


1. Click the 'Body Measure' button.
2. The spectrophotometer data window opens as follows.
3. Click the 'Data Load' button.
4. The measurement data will be displayed.
5. Click the 'OK' button to confirm.

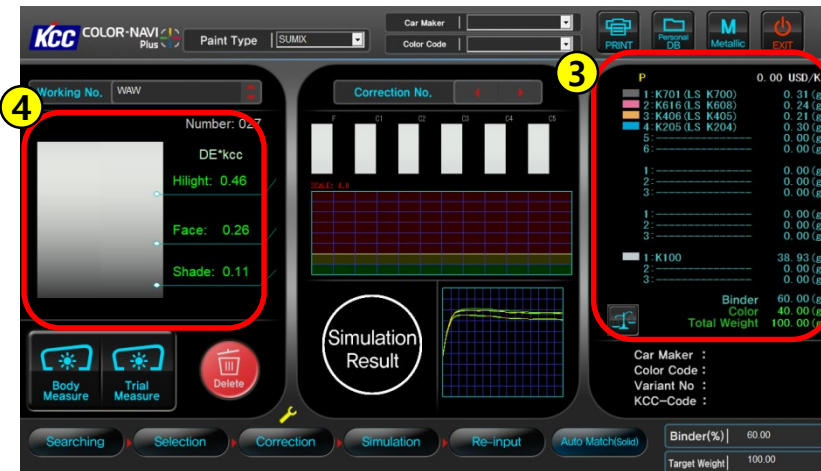


## ② Solid Color Matching

### a. Automatic Mixing on Computer

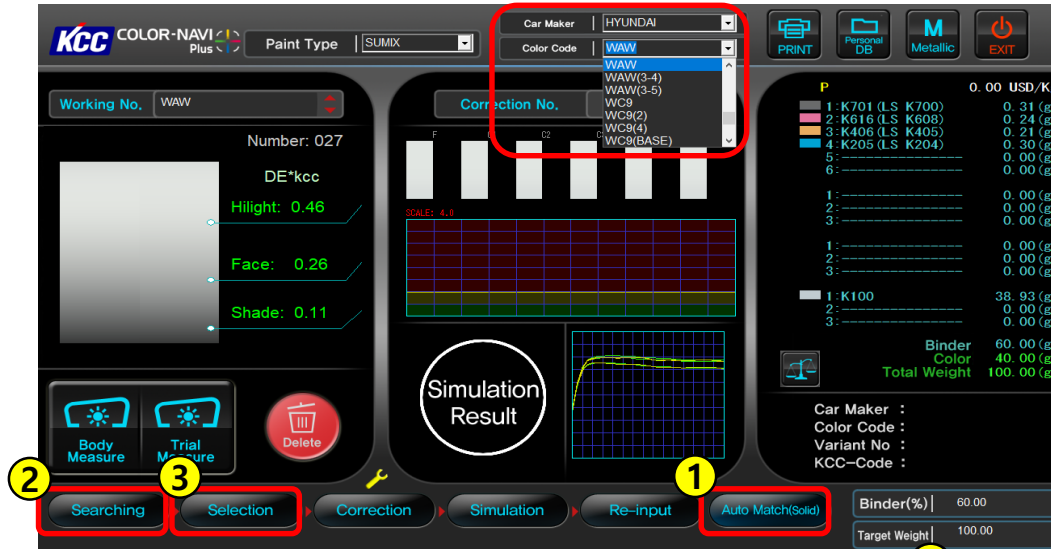


1. Click the 'Auto Match (Solid)' button.
2. Analyze the measured color values to calculate the formula.
3. The formula is automatically generated.
4. The expected color difference ( $\Delta E^*KCC$ ) of the new formula is displayed..



## ② Solid Color Matching

### b. Adjusting Color Using Existing Data



① Click the 'Auto Match (Solid)' button to first perform automatic color matching.

- If vehicle color information is known, select the **Manufacturer** and **Color Code**.
- Confirm the selection by clicking it with the mouse, then verify that it is applied in the lower-right area.
- If color information is not entered, all similar colors will be searched regardless of Car Maker or color code.

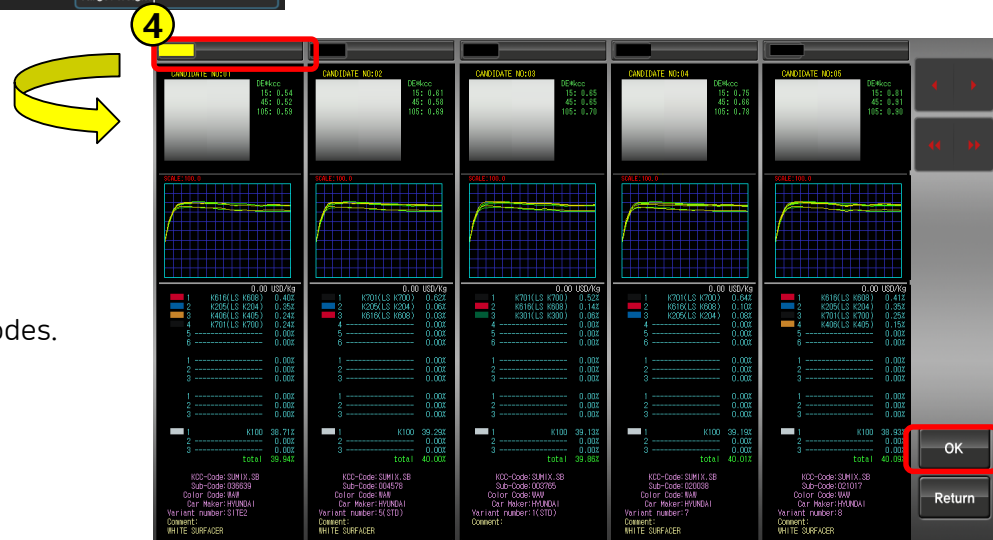
② Click the 'Searching' button..

③ Click the 'Selection' button.

④ A screen like the one on the right will appear. Select based on :

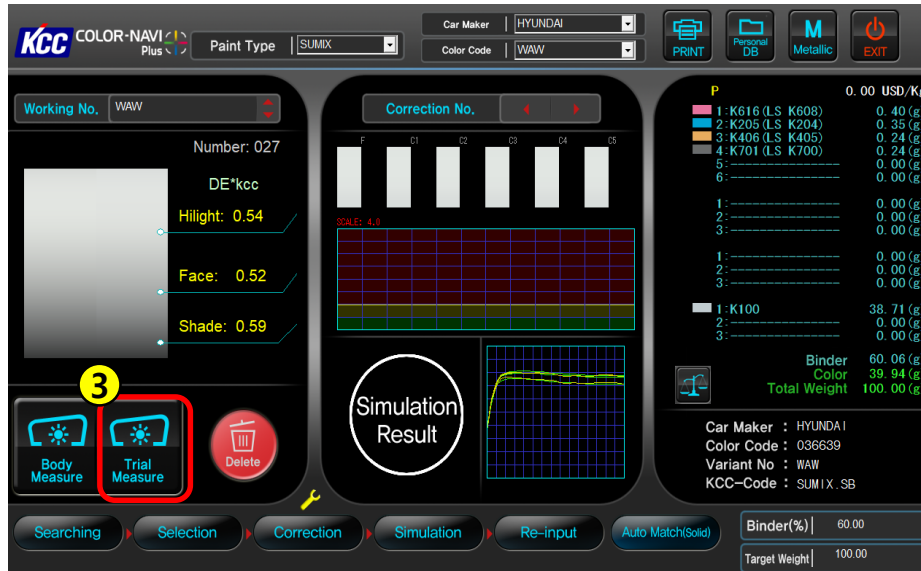
- Small DE( $\Delta E$ ) values.
- Graphically similar matches or identical color codes.
- Formulas containing required toners.
- Check (click) the yellow box at the top.

⑤ Click the 'OK' button to apply your selection.



## ② Solid Color Matching

### Measuring Sample Panel Color

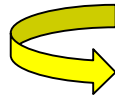


1. Create a sample panel by painting it with either an automatically matched formula or a stored formula.
2. Use the spectrophotometer to measure the painted sample panel.
3. Click the "Trial Measure" button.
4. Click the "Data Load" button to retrieve the measurement data.
5. The measurement data will appear on the screen.
6. Click the "OK" button to confirm.

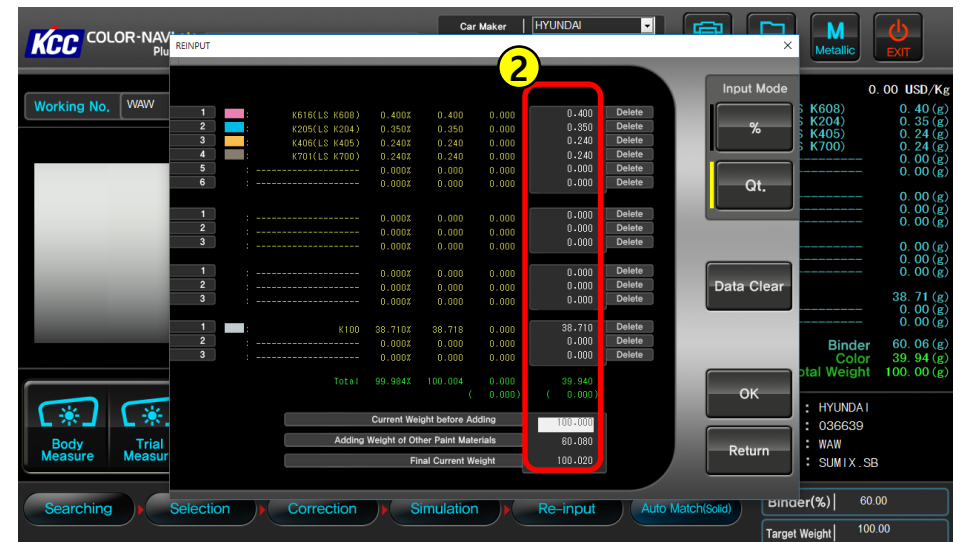


## ② Solid Color Matching

## Entering the Actual Formula Amounts



1. Click the **"Re-input"** button at the bottom.
2. Input the actual amounts of each toner and binder used.
3. Click the **"OK"** button.





## ② Solid Color Matching

### How to Check Color Match

1. Check the color differences ( $\Delta E$ ) for each angle.
  - Solid colors : check the **Face(45°)** color difference value
2. Determine the level of **match acceptability** based on the  $\Delta E(\Delta E^*kcc)$  values.
  - Match Levels:
    - **Good**: Acceptable match
    - **Similar**: Moderate match
    - **Bad**: Poor match
3. Decide whether the formulation can be used based on the result and visual evaluation.
4. Confirm the formulation details of the selected color on the right side.



## ② Solid Color Matching

### Additional Color Adjustment Required

- If additional adjustments are needed, click the **"Left"** or **"Right"** button next to the "Correction No."

  - Direction for Moving Numbers:
    - Forward(Right): F → C1 → C2 → C3 → C4
    - Backward(Left): Reverse of the above.
  - The selected correction number is highlighted in **red**.

- Click the **"Correction"** button at the bottom.
- A new formula will appear on the right side.
- Compare the results with the previous color difference and create a sample panel according to the new formula.

**Top Bar:** KCC COLOR-NAVI Plus, Car Maker: HYUNDAI, Color Code: WAW, Paint Type: SUMIX, PRINT, Personal DB, Metallic, EXIT.

**Working No.:** WAW

**Correction No.:** 1 (highlighted in red)

**Number:** 027

**DE\*kcc:** Highlight: 0.48, Face: 0.25, Shade: 0.07

**Simulation Result:** SCALE: 4.0

**Right Panel:**

Color Code	Weight (g)
1: K616 (LS K608)	0.40 (g)
2: K205 (LS K204)	0.36 (g)
3: K406 (LS K405)	0.23 (g)
4: K701 (LS K700)	0.23 (g)
5:	0.00 (g)
6:	0.00 (g)
1:	0.00 (g)
2:	0.00 (g)
3:	0.00 (g)
1: K100	38.72 (g)
2:	0.00 (g)
3:	0.00 (g)
Binder	60.08 (g)
Color	39.94 (g)
Total Weight	100.02 (g)

**Bottom Bar:** Searching, Selection, Correction (highlighted in red), Simulation, Re-input, Auto Match(Solid)

**Bottom Right:** Car Maker: HYUNDAI, Color Code: 036639, Variant No: WAW, KCC-Code: SUMIX.SB, Binder(%): 60.07, Target Weight: 100.00



### ③ 2Coat (Metallic) Color Matching

**1** Paint Type | SUMIX

Working No. | Number: 027

Correction No. | SCALE: 4.0

Simulation Result

P	0.00 USD/Kg
1:-----	0.00 (g)
2:-----	0.00 (g)
3:-----	0.00 (g)
4:-----	0.00 (g)
5:-----	0.00 (g)
6:-----	0.00 (g)
1:-----	0.00 (g)
2:-----	0.00 (g)
3:-----	0.00 (g)
1:-----	0.00 (g)
2:-----	0.00 (g)
3:-----	0.00 (g)
1:-----	0.00 (g)
2:-----	0.00 (g)
3:-----	0.00 (g)
Binder 100.00 (g)	
Color 0.00 (g)	
Total Weight 100.00 (g)	

Car Maker :  
Color Code :  
Variant No :  
KCC-Code :

**2** Binder(%) | 60.00  
Target Weight | 100.00

Searching | Selection | Correction | Simulation | Re-input | Auto Match(Solid)

1. Select the paint type to mix: **BAROMATCH**(Solvent-borne) or **SUMIX**(Water-borne)
2. Enter the required paint weight (g).

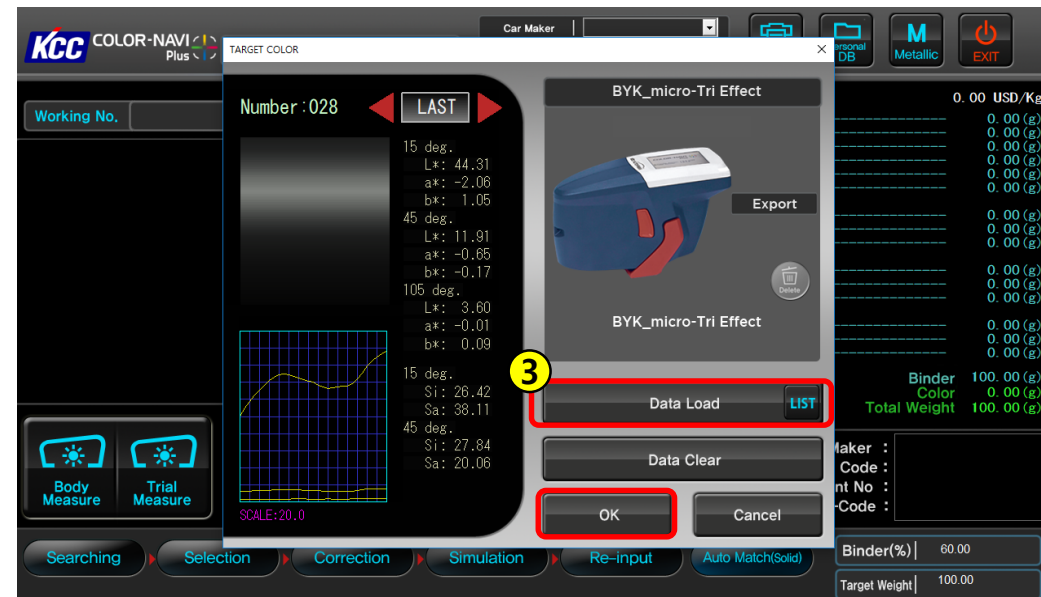
### ③ 2Coat (Metallic) Color Matching



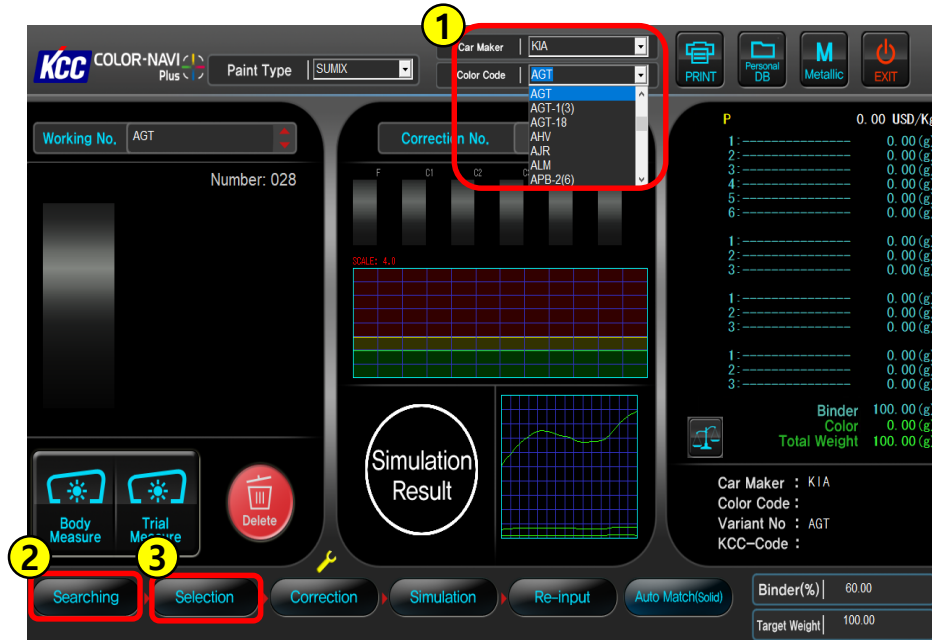
### Vehicle Body Color(Target color) 색상) Measurement



1. Click the 'Body Measure' button.
2. The spectrophotometer data window opens as follows.
3. Click the 'Data Load' button.
4. The measurement data screen will appear.
5. Click the 'OK' button to confirm.



### ③ 2Coat (Metallic) Color Matching



### Color Search and Selection

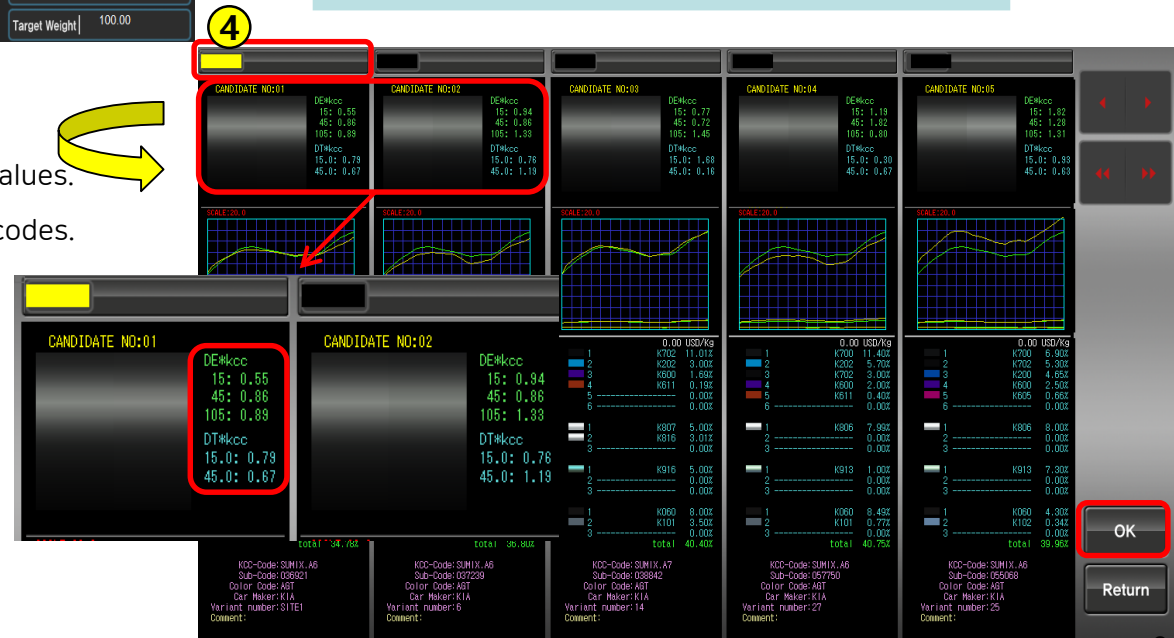
- ① Select the Car Maker and Color Code.
  - Confirm the selection by clicking it with the mouse
- ② Click the 'Searching' button..
- ③ Click the 'Selection' button.

※ Selecting formulas with similar graph shapes (yellow line, green line) minimizes metamerism and makes formula adjustment easier.

- ④ A screen like the one on the right will appear. Select based on :

- Small DE\*KCC(Color), small DT\*KCC(Particle) values.
- Graphically similar matches or identical color codes.
- Formulas containing required toners.
- Check (click) the yellow box at the top.

- ⑤ Click the 'OK' button to apply your selection.



### ③ 2Coat (Metallic) Color Matching

#### First Test Panel Preparation

**KCC COLOR-NAVI Plus**

Car Maker: KIA  
Color Code: AGT  
Paint Type: SUMIX

Working No.: AGT  
Number: 028  
DE\*kcc  
Hilight: 0.55  
Face: 0.86  
Shade: 0.89

Correction No. (Scale: 4.0)

Simulation Result

**1**

P	0.00 USD/kg
1: K700	10.67 (g)
2: K702	1.55 (g)
3: K200	4.12 (g)
4: K600	0.92 (g)
5: K611	0.17 (g)
6: K409	0.27 (g)
1: K806	4.01 (g)
2: K803	1.31 (g)
3: -----	0.00 (g)
1: K906	2.78 (g)
2: K913	2.18 (g)
3: -----	0.00 (g)
1: K060	6.80 (g)
2: -----	0.00 (g)
3: -----	0.00 (g)
Binder	65.22 (g)
Color	34.78 (g)
Total Weight	100.00 (g)

Car Maker : KIA  
Color Code : 036921  
Variant No : AGT  
KCC-Code : SUMIX . AG

Binder(%) | 60.00  
Target Weight | 100.00

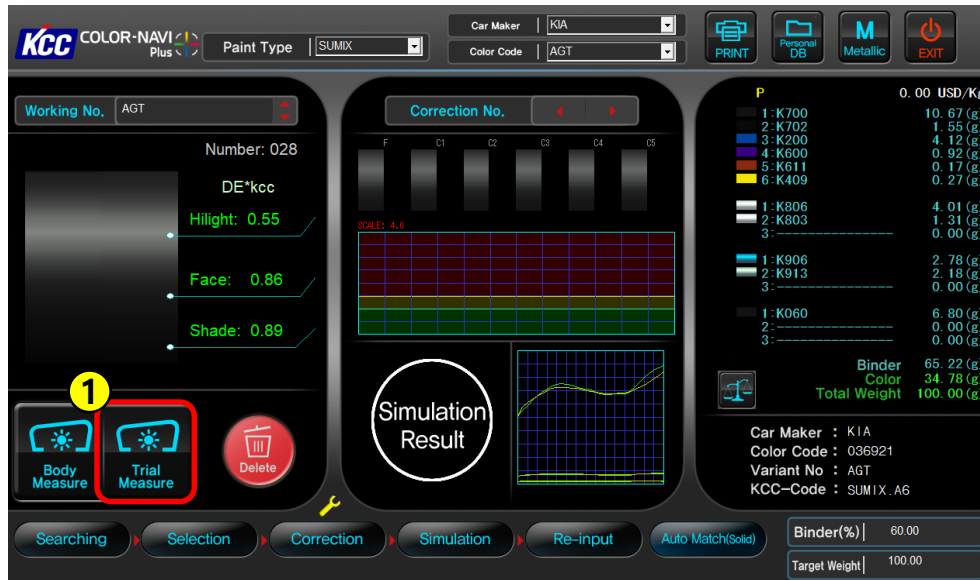
Buttons: Searching, Selection, Correction, Simulation, Re-input, Auto Match(Solid)



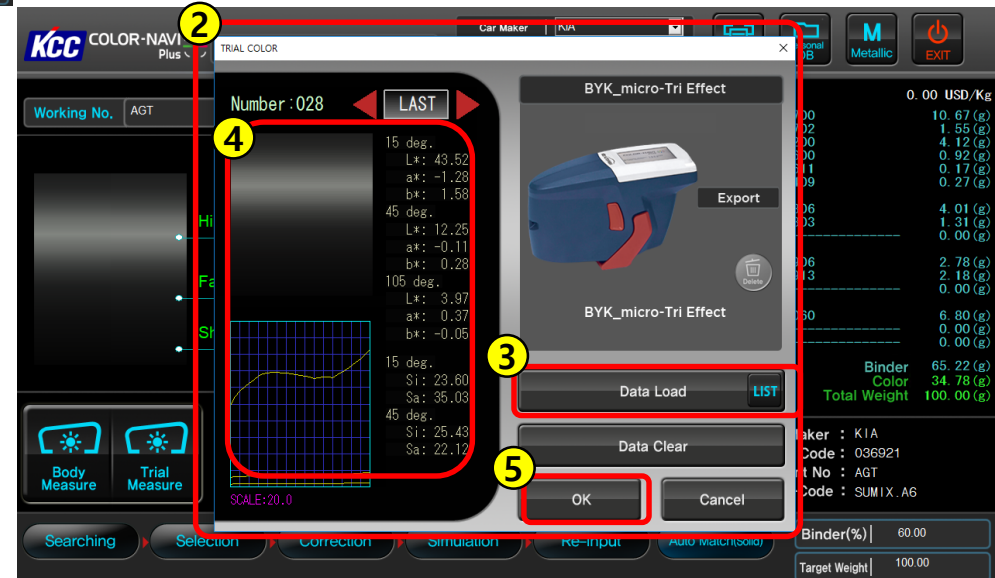
1. Check the color formula.
2. Mix the toners according to the formula.
3. Apply the prepared paint to the test panel.
4. After the color coat dries, apply a clear coat.
5. Dry the test panel (clear coat).
6. Let the dried test panel cool at room temperature for 1-2 minutes.
7. Measure the test panel using the spectrophotometer.

### ③ 2Coat (Metallic) Color Matching

#### Test Panel Measurement



1. Click the "Trial Measure" button.
2. The spectrophotometer data window opens as follows.
3. Click the "Data Load" button.
4. The measurement results will be displayed on the screen.
5. Click the "OK" button.



### ③ 2Coat (Metallic) Color Matching

Enter the actual toners & binder amounts.

**REINPUT**

No.	Color	Toner	Amount (%)	Amount (g)	Amount (kg)	Amount (lb)	Delete
1	Black	K700	10.671%	10.671	0.000	0.000	Delete
2	Black	K702	1.550%	1.550	0.000	0.000	Delete
3	Black	K200	4.120%	4.120	0.000	0.000	Delete
4	Blue	K600	0.920%	0.920	0.000	0.000	Delete
5	Red	K611	0.170%	0.170	0.000	0.000	Delete
6	Yellow	K409	0.270%	0.270	0.000	0.000	Delete
1	Black	K806	4.010%	4.010	0.000	0.000	Delete
2	Black	K803	1.310%	1.310	0.000	0.000	Delete
3	Black		0.000%	0.000	0.000	0.000	Delete
1	Blue	K906	2.780%	2.780	0.000	0.000	Delete
2	Black	K913	2.180%	2.180	0.000	0.000	Delete
3	Black		0.000%	0.000	0.000	0.000	Delete
1	Black	K060	6.801%	6.801	0.000	0.000	Delete
2	Black		0.000%	0.000	0.000	0.000	Delete
3	Black		0.000%	0.000	0.000	0.000	Delete
<b>Total</b>			<b>100.000%</b>	<b>100.000</b>	<b>0.000</b>	<b>( 0.000 )</b>	<b>( 0.000 )</b>
Current Weight before Adding				100.000			
Adding Weight of Other Paint Materials				65.220			
Final Current Weight				100.000			

**Input Mode**

**%**

**Qt.**

**Data Clear**

**OK**

**Return**

**Body Measure** **Trial Measure**

**Searching** **Selection** **Correction** **Simulation** **Re-input** **Auto Match(Solid)**

**Binder(%)** 60.00

**Target Weight** 100.00

**0.00 USD/Kg**

**10.67 (g)**

**1.55 (g)**

**4.12 (g)**

**0.92 (g)**

**0.17 (g)**

**0.27 (g)**

**4.01 (g)**

**1.31 (g)**

**0.00 (g)**

**2.78 (g)**

**2.18 (g)**

**0.00 (g)**

**6.80 (g)**

**0.00 (g)**

**0.00 (g)**

**Binder** 65.22 (g)

**Color** 34.78 (g)

**total Weight** 100.00 (g)

**: KIA**

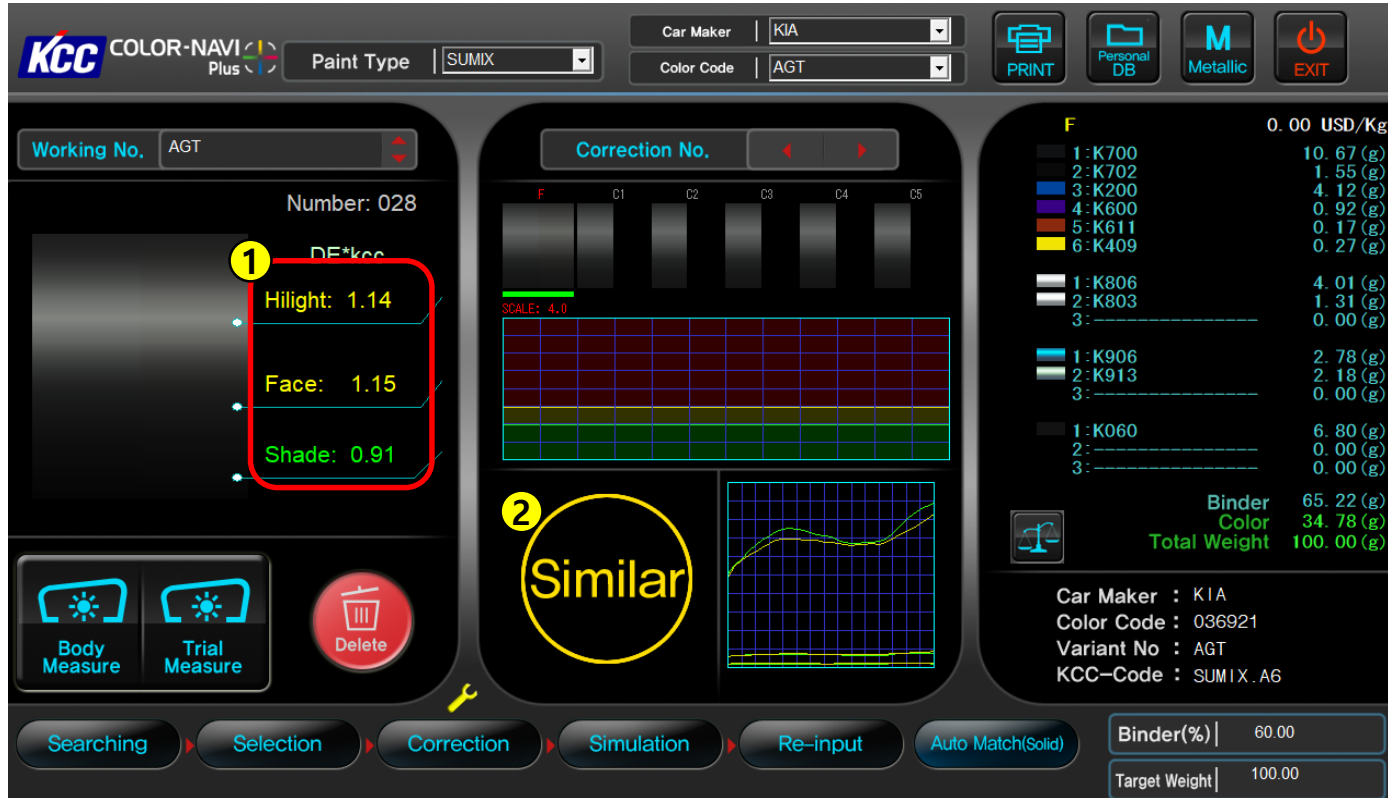
**: 036921**

**: AGT**

**: SUMIX .A6**

1. Click the "Re-input" button at the bottom.
2. Enter the actual added amounts for each toner and binder.
3. Click the "OK" button to confirm.

### ③ 2Coat (Metallic) Color Matching

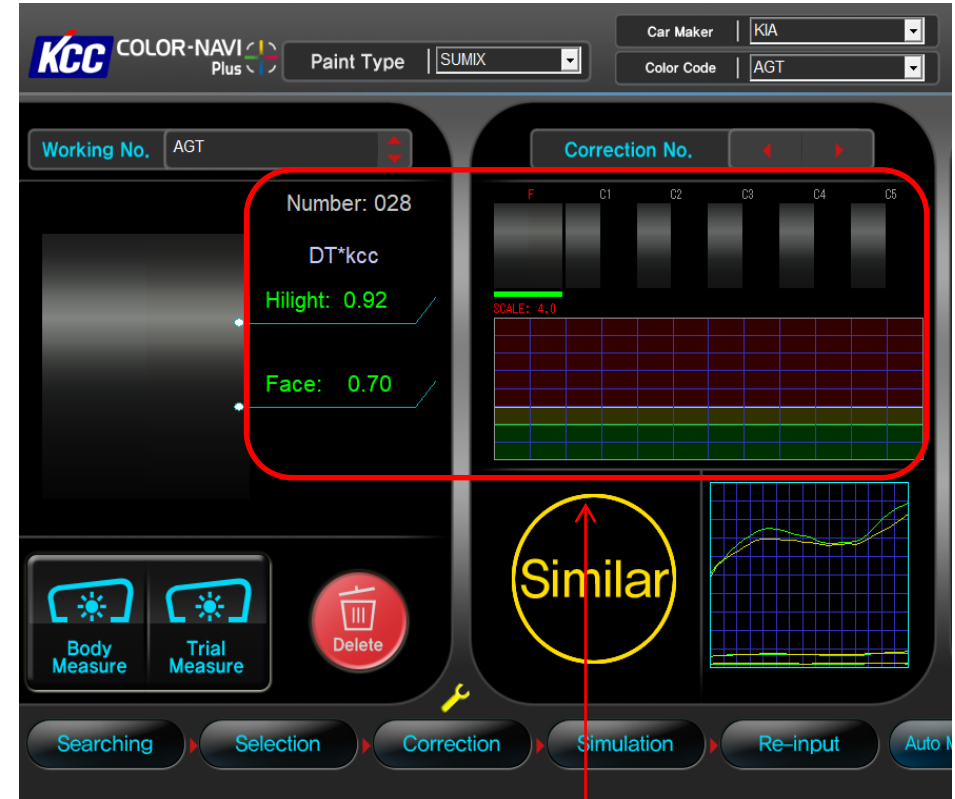
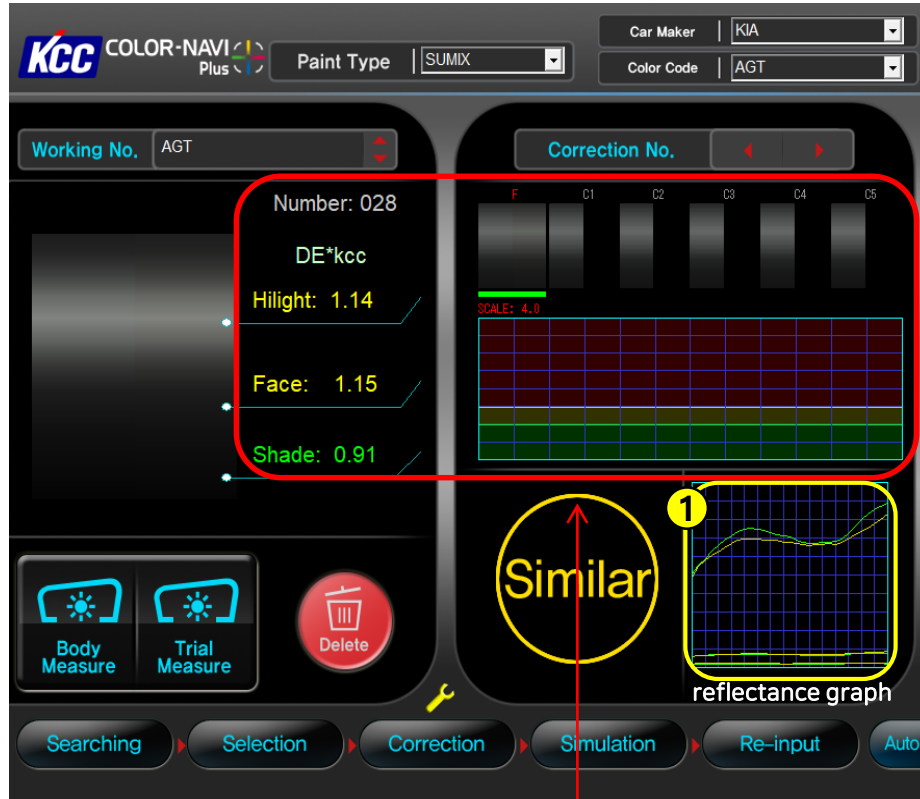


### Checking Test Panel Measurement Results

1. Check the color difference (DE\*KCC) at each angle : High light(15'), Face(45'), Shade(105')
2. The color difference is classified into three levels: "Good", "Similar" and "Bad"
3. Based on these results, decide whether to proceed with further adjustments (correction).



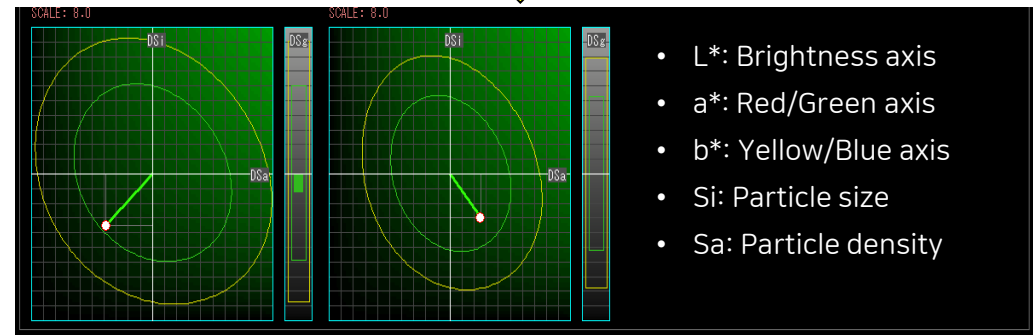
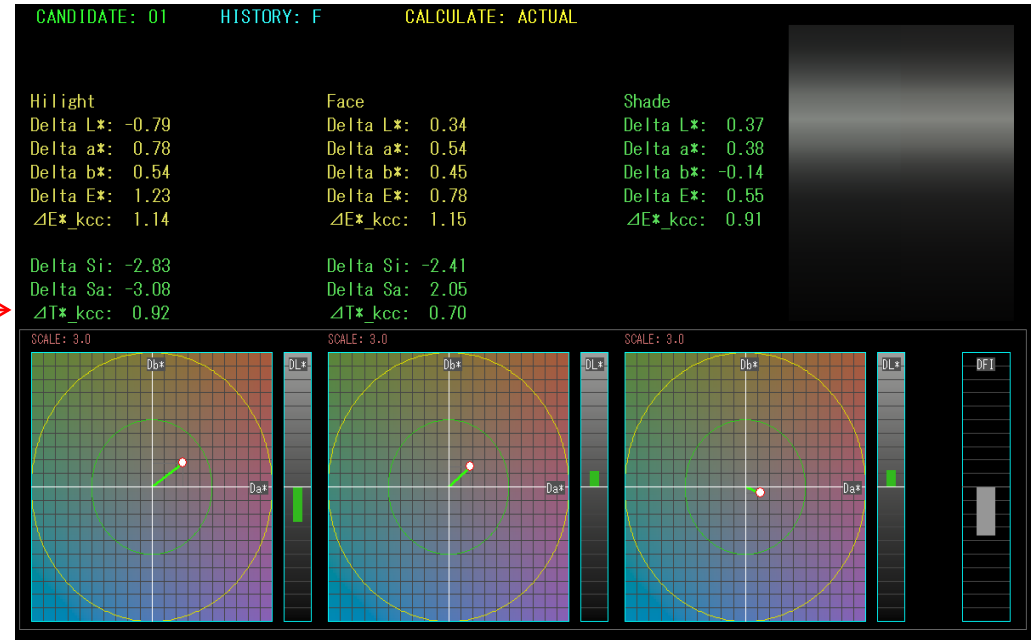
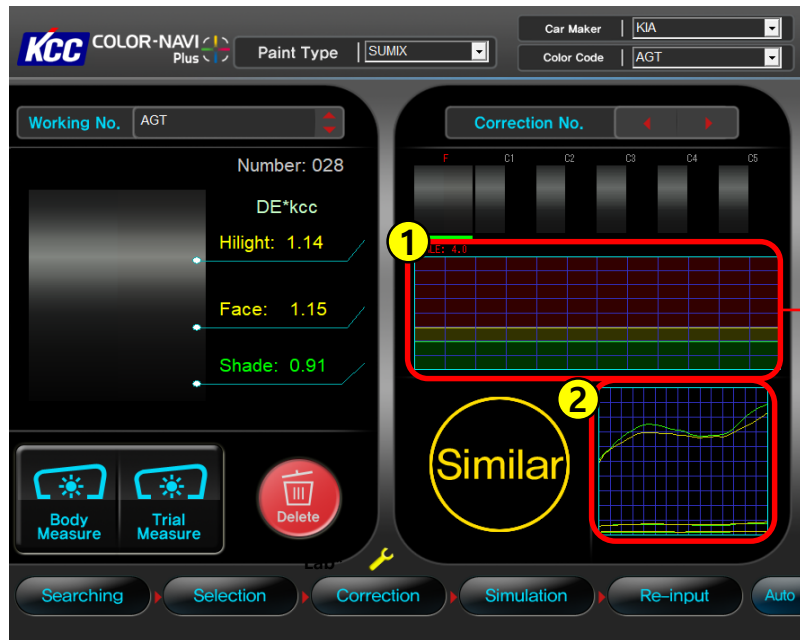
### ③ 2Coat (Metallic) Color Matching



### Checking Test Panel Measurement Results

- Click the **reflectance graph** to toggle between color difference ( $\Delta E_{KCC}$ ) and particle difference ( $\Delta T_{KCC}$ ).

### ③ 2Coat (Metallic) Color Matching



### Checking Panel Measurement Results

1. Double-click the progress graph area to display detailed color information on the right, as shown.
2. The reflectance graph at the bottom switches to a color difference graph ( $\Delta E$ ) or particle difference ( $\Delta T$ ) graph.

### ③ 2Coat (Metallic) Color Matching Test Panel Color Correction

**KCC COLOR-NAVI Plus**

Paint Type: SUMIX

Car Maker: KIA

Color Code: AGT

Working No.: AGT

Number: 028

Correction No.: C1

Simulation Result

SCALE: 4.0

1: K700 10.67 (g)  
2: K702 1.55 (g)  
3: K200 4.12 (g)  
4: K600 0.92 (g)  
5: K611 0.17 (g)  
6: K409 0.27 (g)

1: K806 4.01 (g)  
2: K803 1.31 (g)  
3: 0.00 (g)

1: K906 2.78 (g)  
2: K913 2.18 (g)  
3: 0.00 (g)

1: K060 6.80 (g)  
2: 0.00 (g)  
3: 0.00 (g)

Binder 65.22 (g)  
Color 34.78 (g)  
Total Weight 100.00 (g)

Car Maker : KIA  
Color Code : 036921  
Variant No : AGT  
KCC-Code : SUMIX . AG

Binder(%) | 60.00  
Target Weight | 100.00

Searching Selection Correction Simulation Re-input Auto Match(Solid)

① If the results are unsatisfactory, use the "Correction Number Move" button at the top to proceed to the next correction.

1) Direction for Moving Numbers:

- Forward: F → C1 → C2 → C3 → C4
- Backward: Reverse of the above.

2) The selected correction number is highlighted in red.

### ③ 2Coat (Metallic) Color Matching

#### Test Panel Color Correction

**KCC COLOR-NAVI Plus**

Paint Type: SUMIX

Car Maker: KIA

Color Code: AGT

Working No.: AGT

Number: 028

DE\*kcc

Highlight: 0.33

Face: 0.45

Shade: 0.75

Body Measure

Trial Measure

Delete

Correction No. 1

Simulation Result

1: K700 9.34 (g)

2: K702 1.65 (g)

3: K200 3.21 (g)

4: K600 0.72 (g)

5: K611 0.11 (g)

6: K409 0.24 (g)

1: K806 3.54 (g)

2: K803 0.52 (g)

3: 0.00 (g)

1: K906 5.09 (g)

2: K913 1.89 (g)

3: 0.00 (g)

1: K060 8.48 (g)

2: 0.00 (g)

3: 0.00 (g)

Binder 65.22 (g)

Color 34.78 (g)

Total Weight 100.00 (g)

Car Maker : KIA

Color Code : 036921

Variant No : AGT

KCC-Code : SUMIX.A6

Searching

Selection

Correction

Simulation

Re-input

Auto Match(Solid)

Binder(%) 65.22

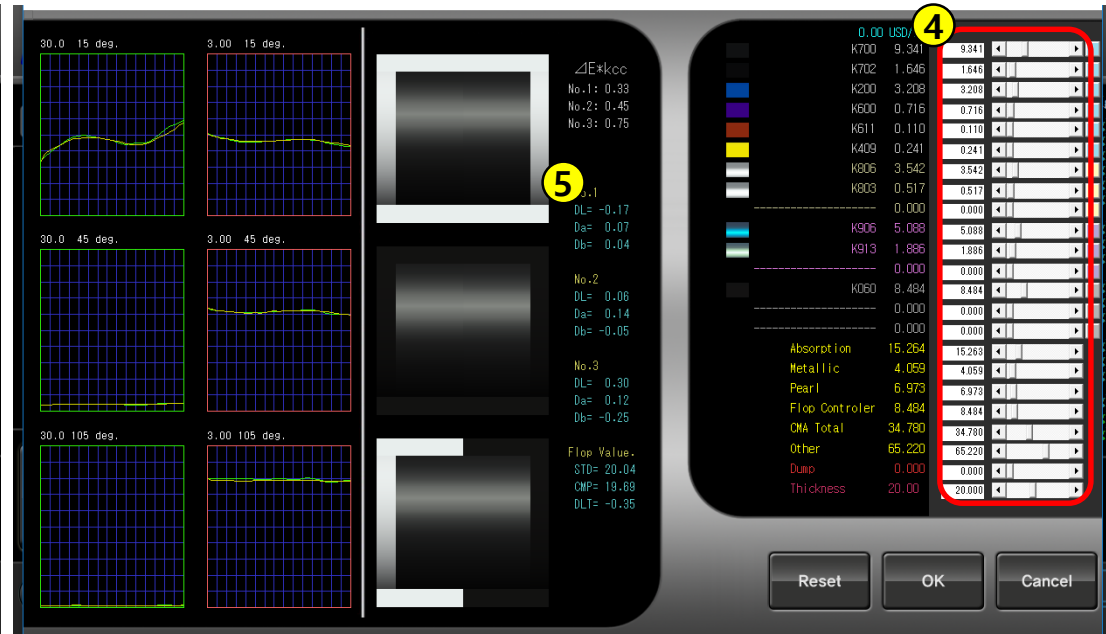
Target Weight 100.00

1. Change the correction number from F to C1.
2. Click the "Correction" button at the bottom.
  - The program will automatically create an updated correction formula.
3. Use the updated formula to prepare a new test panel.
4. Measure the prepared panel, evaluate the matching level, and:
  - If satisfactory, complete the process.
  - If unsatisfactory, repeat the procedure.

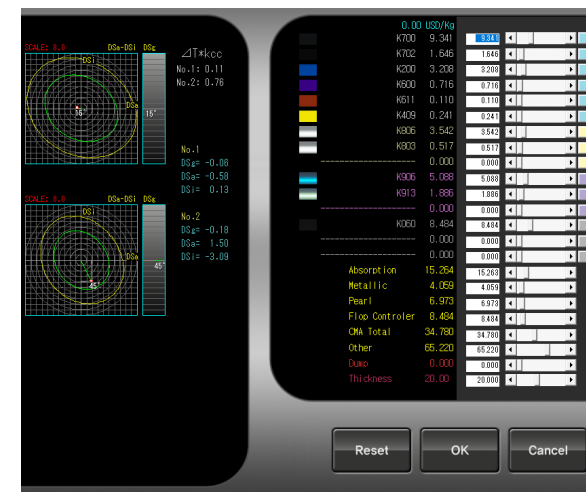
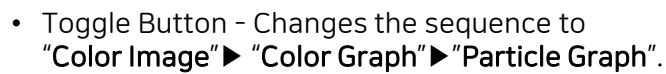
### ③ 2Coat (Metallic) Color Matching

#### Color Fine Adjustment Simulation

(Tip: When the COLOR-NAVI formula and opinion differ, or if you want to adjust the color at certain angles)



1. Click the "Simulation" button at the bottom.
2. The simulation window will open as shown in the image on the right.
3. On the right side of the screen, you can see the toners used in the formula and their mixing ratios.
4. The mixing ratios of each toner can be adjusted by directly entering numbers or using the scroll bar.
5. When the toner amounts are adjusted, you can observe changes in the color difference simulation screen on the left.
  - Verify if the expected result is better than the automatic adjustment formula from Color Navi.
  - If satisfactory, press the "OK" button. To readjust, press the "Reset" button. To use the automatic adjustment formula, press the "Cancel" button.



## ④ 3Coat Color Matching

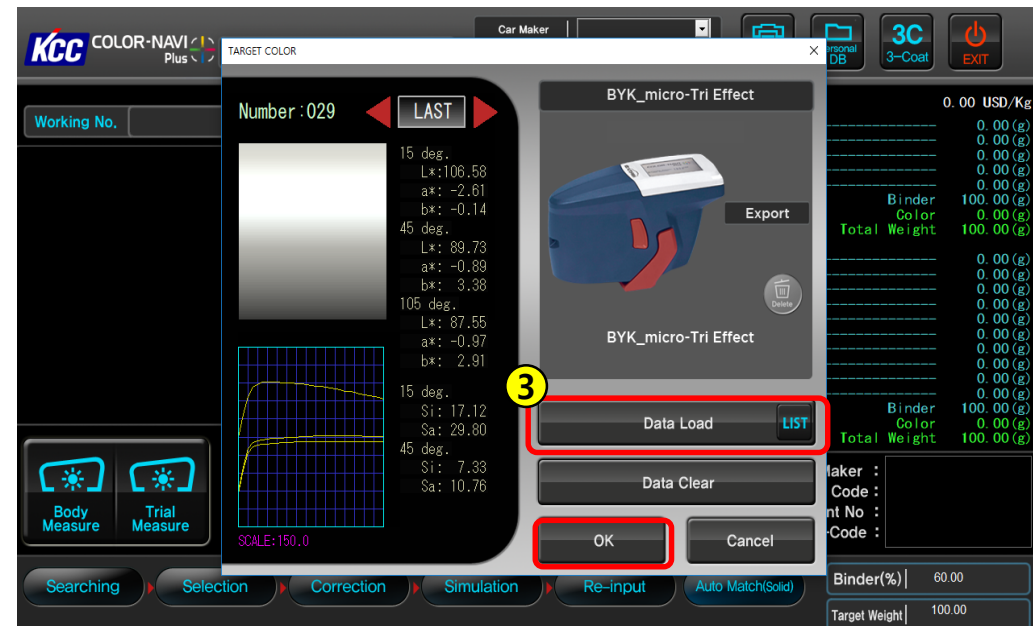
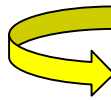
1. Select the paint type to mix: **BAROMATCH**(Solvent-borne) or **SUMIX**(Water-borne)
2. Click the mode button at the top to switch to "3C (3-Coat)" mode.



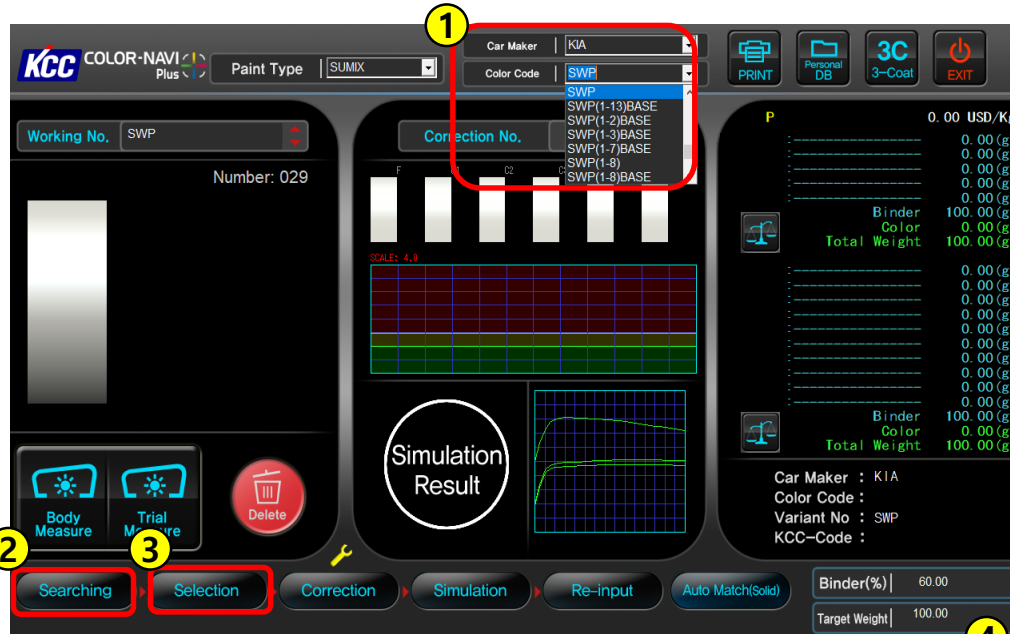
## ④ 3Coat Color Matching



1. Click the 'Body Measure' button.
2. The spectrophotometer data window opens as follows.
3. Click the 'Data Load' button.
4. The measurement results will be displayed on the screen.
5. Click the 'OK' button to confirm.



## ④ 3Coat Color Matching



### Color Search and Selection

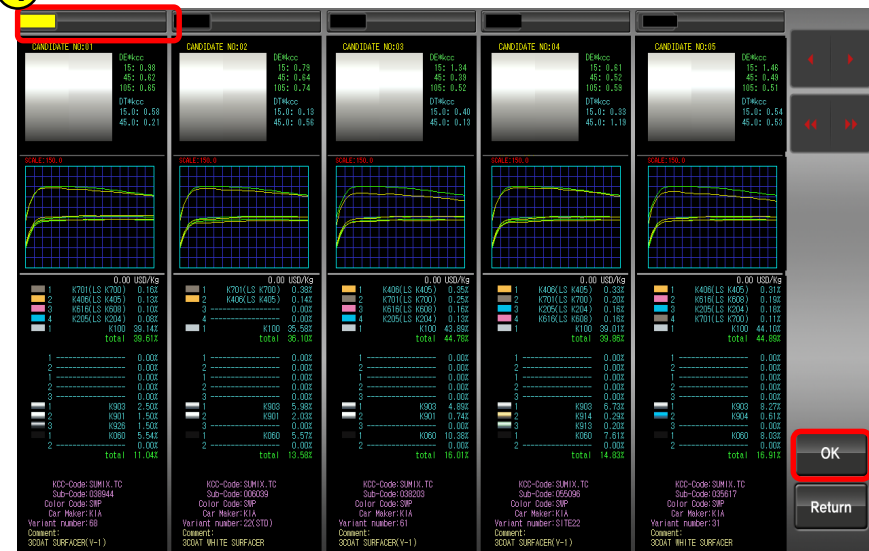
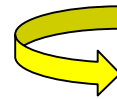
- ① Select the Car Maker and Color Code.
  - Confirm the selection by clicking it with the mouse
- ② Click the 'Searching' button..
- ③ Click the 'Selection' button.

※ Selecting formulas with similar graph shapes (yellow line, green line) minimizes metamerism and makes formula adjustment easier.

- ④ A screen like the one on the right will appear. Select based on :

- Small DE\*KCC(Color), small DT\*KCC(Particle) values.
- Graphically similar matches or identical color codes.
- Formulas containing required toners.
- Check (click) the yellow box at the top.

- ⑤ Click the 'OK' button to apply your selection.



## ④ 3Coat Color Matching

**KCC COLOR-NAVI Plus**

Paint Type: SUMIX

Car Maker: KIA

Color Code: SWP

Working No.: SWP

Number: 029

DE\*kcc

Highlight: 0.98

Face: 0.62

Shade: 0.65

Simulation Result

Correction No.

SCALE: 4.0

Body Measure

Trial Measure

Delete

Searching

Selection

Correction

Simulation

Re-input

Auto Match(Solid)

Binder(%) 60.00

Target Weight 100.00

**Paint Component List (Highlighted):**

Component	Weight (g)
K701 (LS K700)	0.16
K406 (LS K405)	0.13
K616 (LS K608)	0.10
K205 (LS K204)	0.08
K100	39.14
Binder	60.39
Color	39.61
<b>Total Weight</b>	<b>100.00</b>

**Additional Paint Components:**

Component	Weight (g)
K903	2.50
K901	1.50
K926	1.50
K060	5.54
Binder	88.96
Color	11.04
<b>Total Weight</b>	<b>100.00</b>

Car Maker : KIA

Color Code : 038944

Variant No : SWP

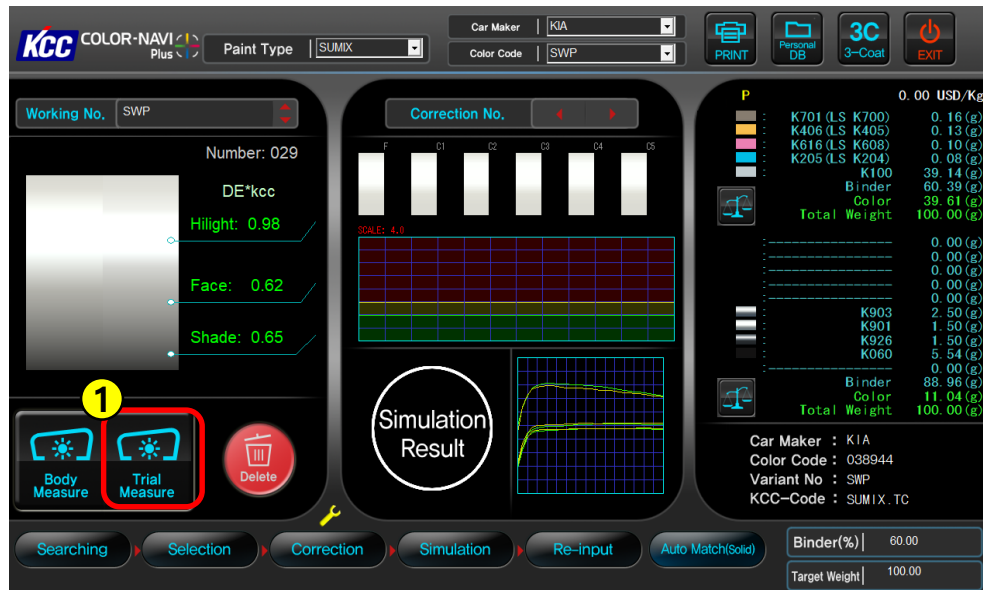
KCC-Code : SUMIX.TC



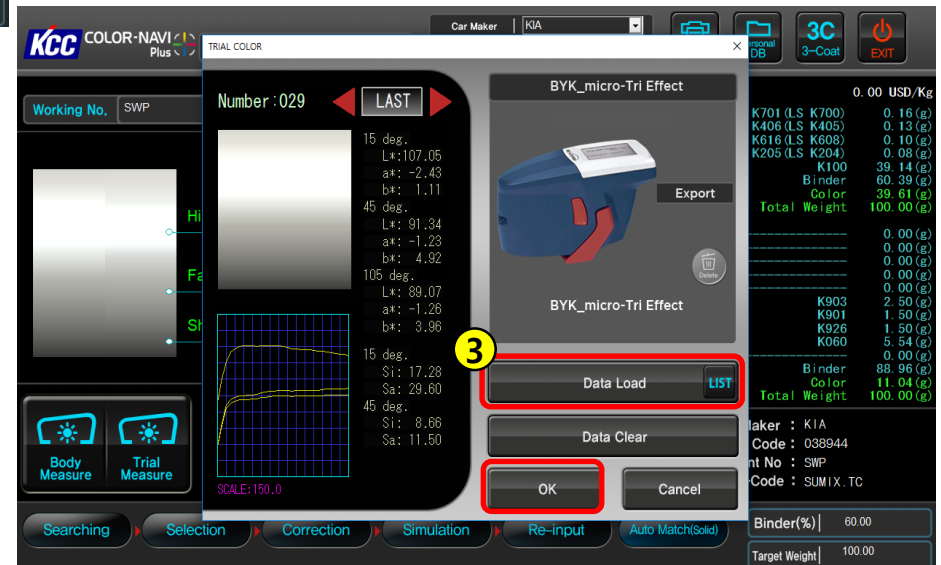
### First Test Panel Preparation

1. Check the base coat and pearl coat formula.
2. Mix the toners according to the formula.
3. Apply the prepared paint to the test panel.
  - 3COAT Painting: For SUMIX, apply white primer first, then spray the base coat twice and the pearl coat twice.  
(\*Please check the website for specific coating instructions, as the number of coatings may vary depending on the formula.)
4. After the color coat dries, apply a clear coat.
5. Dry the test panel (clear coat).
6. Let the dried test panel cool at room temperature for 1-2 minutes.
7. Measure the test panel using the spectrophotometer.

## ④ 3Coat Color Matching Test Panel Measurement



1. Click the "Trial Measure" button.
2. The spectrophotometer data window opens as follows.
3. Click the "Data Load" button.
4. The measurement results will be displayed on the screen.
5. Click the "OK" button.



#### ④ 3Coat Color Matching

Enter the actual toners & binder amounts.

The screenshot shows the KCC COLOR-NAV Plus software interface. The main display area is divided into two sections. The top section shows a list of toners and their amounts, with a 'Total' row at the bottom. The bottom section shows a list of binder amounts and their weights, with a 'Total' row at the bottom. A red box highlights the 'Re-input' button at the bottom of the screen. A yellow circle with the number '1' is placed over the 'Re-input' button. A red box highlights the input fields for the toner and binder amounts, with a yellow circle with the number '2' placed over the input field for the toner amount.

Toner	Amount (%)	Amount (g)	Weight (g)
K701(LS K700)	0.160%	0.160	0.000
K406(LS K405)	0.130%	0.130	0.000
K616(LS K608)	0.100%	0.100	0.000
K205(LS K204)	0.080%	0.080	0.000
<b>Total</b>	<b>39.614%</b>	<b>39.614</b>	<b>0.000</b>

Binder	Amount (%)	Amount (g)	Weight (g)
K903	2.500%	2.500	0.000
K901	1.500%	1.500	0.000
K926	1.500%	1.500	0.000
<b>Total</b>	<b>11.040%</b>	<b>11.040</b>	<b>0.000</b>

Buttons: Searching, Selection, Correction, Simulation, **Re-input**, Auto Match(Solid), OK, Return, Data Clear, Input Mode, % , Qt.

Right Panel: 0.00 USD/Kg, LS K700) 0.16 (g), LS K405) 0.13 (g), LS K608) 0.10 (g), LS K204) 0.08 (g), K100 39.14 (g), Binder 60.39 (g), Color 39.61 (g), Weight 100.00 (g), K903 2.50 (g), K901 1.50 (g), K926 1.50 (g), K060 5.54 (g), Binder 88.96 (g), Color 11.04 (g), Weight 100.00 (g), KIA, 038944, SWP, SUMIX.TC, Binder(%) 60.00, Target Weight 100.00

1. Click the "Re-input" button at the bottom.
2. Enter the actual added amounts for each toner and binder.
3. Click the "OK" button to confirm.

## ④ 3Coat Color Matching

**KCC COLOR-NAVI Plus**

Car Maker: KIA  
Color Code: SWP

Paint Type: SUMIX

Working No.: SWP

Number: 029

**DE\*kcc**

- Highlight: 1.04
- Face: 0.96
- Shade: 0.83

**Correction No.**

SCALE: 4.0

**Similar**

**Weight List:**

Color Code	Weight (g)
K701 (LS K700)	0.16
K406 (LS K405)	0.13
K616 (LS K608)	0.10
K205 (LS K204)	0.08
K100	39.14
Binder	60.39
<b>Total Weight</b>	<b>100.00</b>

**Simulation Results:**

Color Code	Weight (g)
K903	2.50
K901	1.50
K926	1.50
K060	5.54
Binder	88.96
<b>Total Weight</b>	<b>100.00</b>

Car Maker : KIA  
Color Code : 038944  
Variant No : SWP  
KCC-Code : SUMIX.TC

Binder(%) : 60.00  
Target Weight : 100.00

Navigation: Searching → Selection → Correction → Simulation → Re-input → Auto Match(Solid)

### Checking Test Panel Measurement Results

1. Check the color difference (DE) at each angle : High light(15'), Face(45'), Shade(105')
2. The color difference is classified into three levels: "Good", "Similar" and "Bad"
3. Based on these results, decide whether to proceed with further adjustments (correction).

## ④ 3Coat Color Matching Test Panel Color Correction

**KCC COLOR-NAVI Plus**

Car Maker: KIA  
Color Code: SWP

Paint Type: SUMIX

Working No.: SWP  
Number: 029

Correction No. 1

Simulation Result

Body Measure  
Trial Measure  
Delete

Searching Selection Correction Simulation Re-input Auto Match(Solid)

Binder(%) 60.00  
Target Weight 100.00

C1	Weight (g)
K701 (LS K700)	0.16 (g)
K406 (LS K405)	0.13 (g)
K616 (LS K608)	0.10 (g)
K205 (LS K204)	0.08 (g)
K100	39.14 (g)
Binder	60.39 (g)
Color	39.61 (g)
Total Weight	100.00 (g)

	Weight (g)
K903	2.50 (g)
K901	1.50 (g)
K926	1.50 (g)
K060	5.54 (g)
Binder	88.96 (g)
Color	11.04 (g)
Total Weight	100.00 (g)

Car Maker : KIA  
Color Code : 038944  
Variant No : SWP  
KCC-Code : SUMIX.TC

① If the results are unsatisfactory, use the "Correction Number Move" button at the top to proceed to the next correction.

1) Direction for Moving Numbers:

- Forward: F → C1 → C2 → C3 → C4
- Backward: Reverse of the above.



## ④ 3Coat Color Matching

### Test Panel Color Correction

**KCC COLOR-NAVI Plus**

Paint Type: SUMIX

Car Maker: KIA

Color Code: SWP

PRINT

Personal DB

3C 3-Coat

EXIT

Working No. SWP

Number: 029

DE\*kcc

Highlight: 0.52

Face: 0.10

Shade: 0.31

Body Measure

Trial Measure

Delete

Correction No. 1

Simulation Result

SCALE: 4.0

C1

C2

C3

C4

C5

0.00 USD/Kg

K701 (LS K700)	0.41 (g)
K406 (LS K405)	0.00 (g)
K616 (LS K608)	0.19 (g)
K205 (LS K204)	0.11 (g)
K100	38.90 (g)
Binder	60.39 (g)
Color	39.61 (g)
Total Weight	100.00 (g)
	0.00 (g)
	0.00 (g)
	0.00 (g)
	0.00 (g)
	0.00 (g)
	0.00 (g)
K903	2.38 (g)
K901	1.72 (g)
K926	1.76 (g)
K060	5.59 (g)
	0.00 (g)
Binder	88.55 (g)
Color	11.45 (g)
Total Weight	100.00 (g)

Car Maker : KIA

Color Code : 038944

Variant No : SWP

KCC-Code : SUMIX.TC

Searching

Selection

Correction

Simulation

Re-input

Auto Match(Solid)

Binder(%) 60.39

Target Weight 100.00

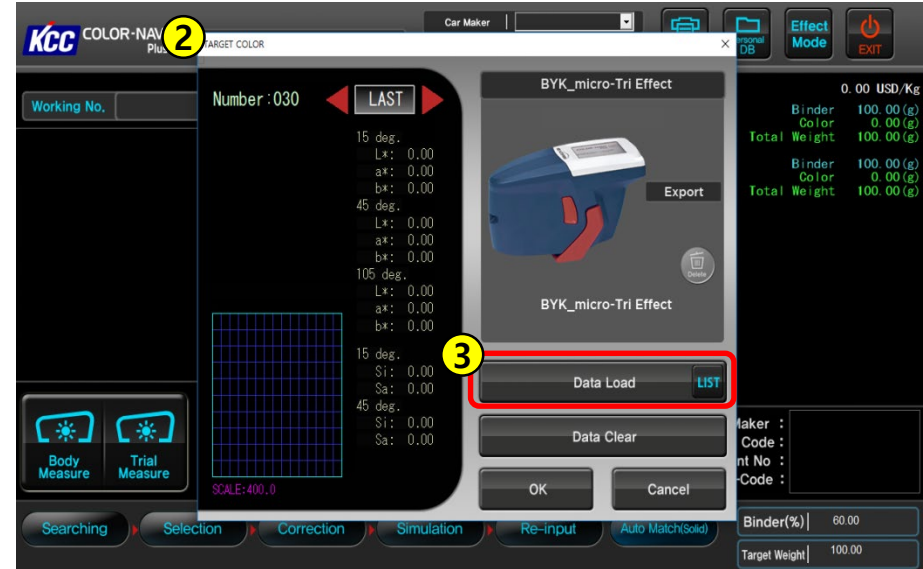
1. Change the correction number from F to C1.
2. Click the "Correction" button at the bottom.
  - The program will automatically create an updated correction formula.
3. Use the updated formula to prepare a new test panel.
4. Measure the prepared panel, evaluate the matching level, and:
  - If satisfactory, complete the process.
  - If unsatisfactory, repeat the procedure.

## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

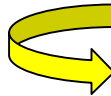


1. Select the paint type to mix: **BAROMATCH**(Solvent-borne) or **SUMIX**(Water-borne)
2. Click the mode button at the top to switch to "Effect Mode".

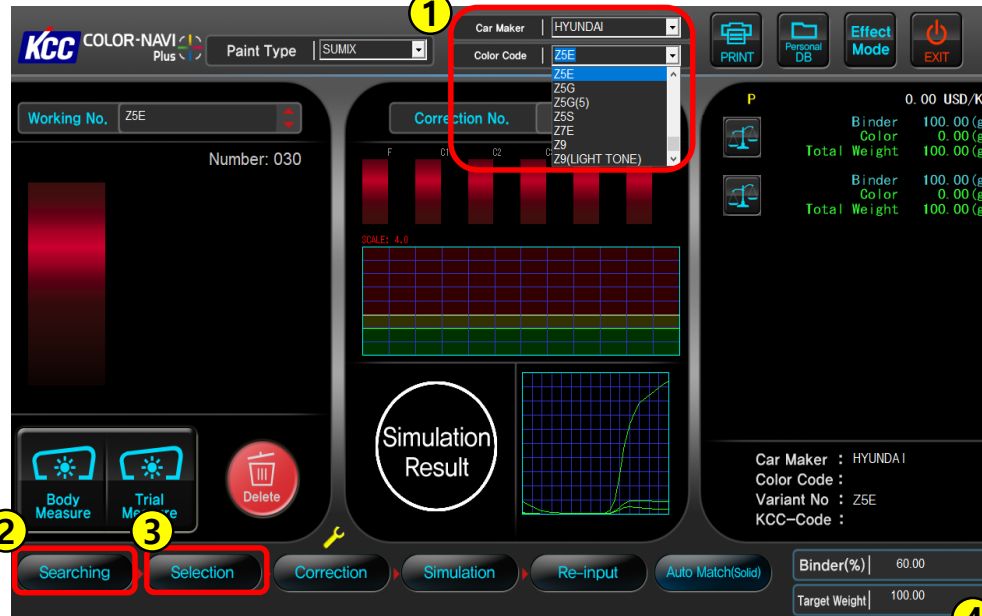
## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching



1. Click the 'Body Measure' button.
2. The spectrophotometer data window opens as follows.
3. Click the 'Data Load' button.
4. The measurement results will be displayed on the screen.
5. Click the 'OK' button to confirm.



## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching



### Color Search and Selection

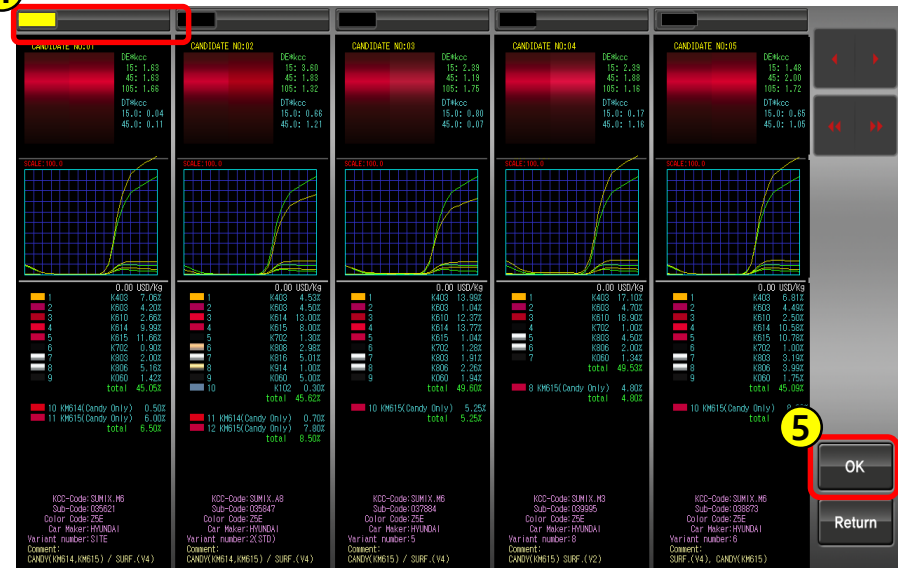
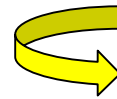
- ① Select the Car Maker and Color Code.
  - Confirm the selection by clicking it with the mouse
- ② Click the 'Searching' button..
- ③ Click the 'Selection' button.

※ Selecting formulas with similar graph shapes (yellow line, green line) minimizes metamerism and makes formula adjustment easier.

- ④ A screen like the one on the right will appear. Select based on :

- Small DE\*KCC(Color), small DT\*KCC(Particle) values.
- Graphically similar matches or identical color codes.
- Formulas containing required toners.
- Check (click) the yellow box at the top.

- ⑤ Click the 'OK' button to apply your selection.



## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

Working No. Z5E

Paint Type SUMIX

Car Maker HYUNDAI

Color Code Z5E

Number: 030

DE\*kcc

Hilght: 1.48

Face: 2.00

Shade: 1.72

Correction No.

SCALE: 4.0

Simulation Result

1: KM615 (Candy Only) 8.00 (g)

Binder 92.00 (g)

Color 8.00 (g)

Total Weight 100.00 (g)

Car Maker : HYUNDAI

Color Code : 038873

Variant No : Z5E

KCC-Code : SUMIX.M6

Binder(%) 60.00

Target Weight 100.00



### First Test Panel Preparation

1. Check the base coat formula and top coat formula.
2. Mix the toners according to the formula.
3. Apply the prepared paint to the test panel. (Spray).  
(\*Be sure to refer to the formula and notes on the KCC Refinish website.  
The number of coatings may vary depending on the situation.)
4. After the base coat dries, apply the top coat.
5. Then, apply an additional clear coat.
6. Let the dried test panel cool at room temperature for 1-2 minutes.
7. Measure the test panel using the spectrophotometer.

\*For Candy Colors

The remaining process is the same as usual, with only step 4. being modified.

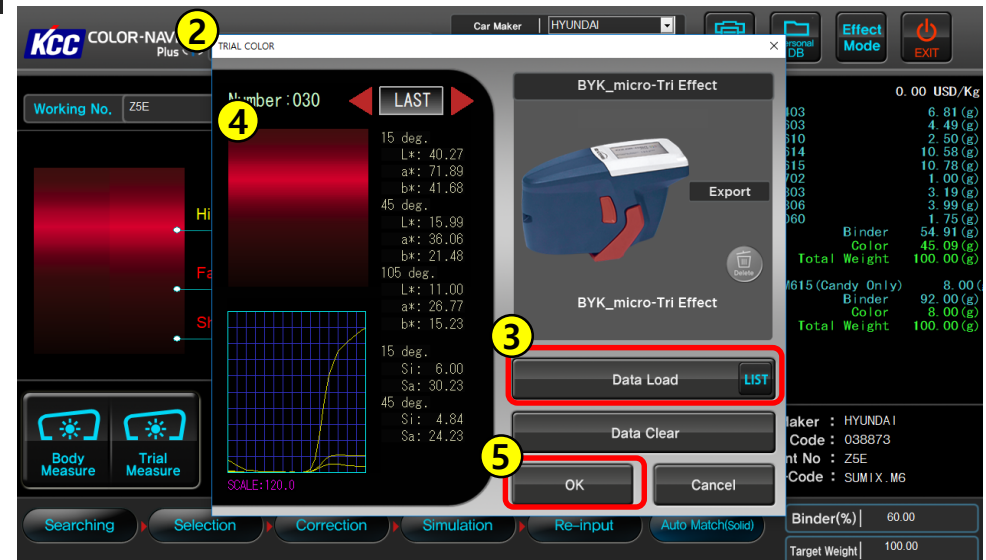
Ex) Top Coat: 5300 HS CLEAR 92g + KM615 (Candy Only) 8g

## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

### Test Panel Measurement



1. Click the "Trial Measure" button.
2. The spectrophotometer data window opens as follows.
3. Click the "Data Load" button.
4. The measurement results will be displayed on the screen.
5. Click the "OK" button.





## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

Enter the actual toners & binder amounts.

The screenshot shows the 'REINPUT' screen with a table of toner data and input fields for Base and Top materials. Numbered callouts indicate the following steps:

- 2**: Points to the 'Qt.' button in the 'Input Mode' section.
- 3**: Points to the 'Adding Weight of Other Paint Materials' input field for the Base material.
- 4**: Points to the 'Delete' button in the toner data table.
- 5**: Points to the 'OK' button.

Toner	Color	Current Weight (%)	Current Weight (g)	Adding Weight (g)	Final Current Weight (g)	Buttons
K403	Yellow	6.810%	6.816	0.000	6.810	Delete, Abs., Met., Pri., FF
K603	Magenta	4.490%	4.494	0.000	4.490	Delete, Abs., Met., Pri., FF
K610	Cyan	2.500%	2.502	0.000	2.500	Delete, Abs., Met., Pri., FF
K614	Red	10.580%	10.590	0.000	10.580	Delete, Abs., Met., Pri., FF
K615	Blue	10.780%	10.790	0.000	10.780	Delete, Abs., Met., Pri., FF
K702	Black	1.000%	1.001	0.000	1.000	Delete, Abs., Met., Pri., FF
K803	White	3.190%	3.193	0.000	3.190	Delete, Abs., Met., Pri., FF
K806	White	3.990%	3.994	0.000	3.990	Delete, Abs., Met., Pri., FF
K060	White	1.750%	1.752	0.000	1.750	Delete, Abs., Met., Pri., FF
KM615 (Candy Only)	Red	8.000%	8.007	0.000	8.000	Delete, Abs., Met., Pri., FF
		0.000%	0.000	0.000	0.000	Delete, Abs., Met., Pri., FF
		0.000%	0.000	0.000	0.000	Delete, Abs., Met., Pri., FF
		0.000%	0.000	0.000	0.000	Delete, Abs., Met., Pri., FF
		0.000%	0.000	0.000	0.000	Delete, Abs., Met., Pri., FF
		0.000%	0.000	0.000	0.000	Delete, Abs., Met., Pri., FF
<b>Total</b>		<b>53.090%</b>	<b>53.138</b>	<b>0.000</b>	<b>53.090</b>	

**Base**

Current Weight: 100.000

Adding Weight of Other Paint Materials: 55.000

Final Current Weight: 100.090

**Top**

Current Weight before Adding: 100.000

Adding Weight of Other Paint Materials: 92.000

Final Current Weight: 100.000

Target Weight: 100.00

1. Click the "Re-input" button at the bottom of home screen.
2. Click the "Qt." button.
3. Enter the actual resin input amounts in the weight fields(Adding Weight of Other Paint Materials) for Base and Top at the bottom.
4. Input the actual quantities(weight/g) used for each toner.
5. Click the "OK" button to confirm.



## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching



### Checking Test Panel Measurement Results

1. Check the color difference (DE) at each angle : High light(15'), Face(45'), Shade(105')
2. The color difference is classified into three levels: "Good", "Similar" and "Bad"
  - Due to the characteristics of high-chroma candy colors, cases where the display shows "Similar" may often appear visually acceptable.
3. Based on the results, decide whether to proceed with further adjustments (correction).

## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

### Test Panel Color Correction

**KCC COLOR-NAVI Plus**

Car Maker: HYUNDAI  
Color Code: Z5E

Paint Type: SUMIX

Working No.: Z5E

Number: 030

Correction No. 1

SCALE: 4.0

Simulation Result

Body Measure Trial Measure Delete

Searching Selection Correction Simulation Re-input Auto Match(Solid)

Binder(%) 60.00  
Target Weight 100.00

**C1** 0.00 USD/Kg

1:K403	6.80 (g)
2:K603	4.49 (g)
3:K610	2.50 (g)
4:K614	10.57 (g)
5:K615	10.77 (g)
6:K702	1.00 (g)
7:K803	3.19 (g)
8:K806	3.99 (g)
9:K060	1.75 (g)
<b>Binder</b>	<b>54.95 (g)</b>
<b>Color</b>	<b>45.05 (g)</b>
<b>Total Weight</b>	<b>100.00 (g)</b>

1:KM615 (Candy Only) 8.00 (g)

<b>Binder</b>	<b>92.00 (g)</b>
<b>Color</b>	<b>8.00 (g)</b>
<b>Total Weight</b>	<b>100.00 (g)</b>

Car Maker : HYUNDAI  
Color Code : 038873  
Variant No : Z5E  
KCC-Code : SUMIX.M6

① If the results are unsatisfactory, use the "Correction Number Move" button at the top to proceed to the next correction.

1) Direction for Moving Numbers:

- Forward: F → C1 → C2 → C3 → C4
- Backward: Reverse of the above.

## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

Working No. Z5E

Number: 030

DE\*kcc

Highlight: 0.47

Face: 0.67

Shade: 0.54

Simulation Result

Correction No. C1

1:K403 5.96(g)

2:K603 3.51(g)

3:K610 7.15(g)

4:K614 11.47(g)

5:K615 7.22(g)

6:K702 1.84(g)

7:K803 1.66(g)

8:K806 4.72(g)

9:K060 1.52(g)

Binder 54.95(g)

Color 45.05(g)

Total Weight 100.00(g)

1:KM615 (Candy Only) 7.12(g)

Binder 92.88(g)

Color 7.12(g)

Total Weight 100.00(g)

Car Maker : HYUNDAI

Color Code : 038873

Variant No : Z5E

KCC-Code : SUMIX.M6

Searching Selection **Correction** Simulation Re-input Auto Match(Solid)

Binder(%) 54.95

Target Weight 100.00

### Test Panel Color Correction

1. Change the correction number from F to C1.
2. Click the "Correction" button at the bottom.
  - The program will automatically create an updated correction formula.
3. Use the updated formula to prepare a new test panel.
4. Measure the prepared panel, evaluate the matching level, and:
  - If satisfactory, complete the process.
  - If unsatisfactory, repeat the procedure.

## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

### ※ Adjusting the Formula Details

REINPUT

Button	Toner Name	6.810%	6.816	0.000	6.810	Delete	Abs.	Met.	Prl.	FF
B	K403	6.810%	6.816	0.000	6.810	Delete	Abs.	Met.	Prl.	FF
B	K603	4.490%	4.494	0.000	4.490	Delete	Abs.	Met.	Prl.	FF
B	K610	2.500%	2.502	0.000	2.500	Delete	Abs.	Met.	Prl.	FF
B	K614	10.580%	10.590	0.000	10.580	Delete	Abs.	Met.	Prl.	FF
B	K615	10.780%	10.790	0.000	10.780	Delete	Abs.	Met.	Prl.	FF
B	K702	1.000%	1.001	0.000	1.000	Delete	Abs.	Met.	Prl.	FF
B	K803	3.190%	3.193	0.000	3.190	Delete	Abs.	Met.	Prl.	FF
B	K806	3.990%	3.994	0.000	3.990	Delete	Abs.	Met.	Prl.	FF
B	K060	1.750%	1.752	0.000	1.750	Delete	Abs.	Met.	Prl.	FF
T	KM615(Candy Only)	8.000%	8.007	0.000	8.000	Delete	Abs.	Met.	Prl.	FF
T		0.000%	0.000	0.000	0.000	Delete	Abs.	Met.	Prl.	FF
T		0.000%	0.000	0.000	0.000	Delete	Abs.	Met.	Prl.	FF
T		0.000%	0.000	0.000	0.000	Delete	Abs.	Met.	Prl.	FF
T		0.000%	0.000	0.000	0.000	Delete	Abs.	Met.	Prl.	FF
T		0.000%	0.000	0.000	0.000	Delete	Abs.	Met.	Prl.	FF
Total		53.090%	53.138	0.000	53.090					

Base

Current Weight before Adding: 100.000

Adding Weight of Other Paint Materials: 55.000

Final Current Weight: 100.090

Top

Current Weight before Adding: 100.000

Adding Weight of Other Paint Materials: 92.000

Final Current Weight: 100.000

Input Mode

%

Qt.

Data Clear

OK

Return

Target Weight | 100.00

1. Click the button (B, T) located to the left of the toner name (①) to select **Basecoat** or **Topcoat**.
2. To change the toner type, click the **Abs.**, **Met.**, **Prl.**, or **FF** buttons (②) to select the desired toner.
  - **Abs.:** Solid toner / **Met.:** Metallic toner / **Prl.:** Pearl toner / **FF:** White, Flip Flop agent

## ⑤ Effect Mode (Candy colors/Special Effect) Color Matching

### Difference Between Candy Colors and Special 3-Coat Formulations

Example of Candy Color Formulation

①

F	0.00 KRW/Kg
1:K608	4.57 (g)
2:K614	9.04 (g)
3:K615	19.86 (g)
4:K803	0.69 (g)
5:K810	7.76 (g)
6:K911	2.78 (g)
7:K060	1.51 (g)
Binder	53.79 (g)
Color	46.21 (g)
Total Weight	100.00 (g)

1:KM614 (Candy Only)	0.72 (g)
2:KM615 (Candy Only)	4.44 (g)
Binder	94.84 (g)
Color	5.16 (g)
Total Weight	100.00 (g)

5300HS CLEAR (Binder)	94.84g
KM614(Candy Only)	0.72g
KM615(Candy Only)	4.44g
Total	100.00g

- ① The binder for the topcoat is 5300 HS CLEAR  
Only solvent-borne toners are used.  
: KM614, KM615 (Candy Only)

Example of Special 3-Coat Formulation

②

F	0.00 KRW/Kg
1:K614	3.99 (g)
2:K615	7.92 (g)
3:K702	1.20 (g)
4:K803	4.83 (g)
5:K806	12.45 (g)
6:K914	4.26 (g)
7:K060	7.71 (g)
Binder	57.64 (g)
Color	42.36 (g)
Total Weight	100.00 (g)

1:K603	4.41 (g)
2:K614	13.44 (g)
Binder	82.15 (g)
Color	17.85 (g)
Total Weight	100.00 (g)

K9001(Binder)	82.15g
K603	4.41g
K614	13.44g
Total	100.00g

- ② The binder for the topcoat is K9001,  
and all SUMIX toners can be used.

## ⑥ Waterborne RM(WT5000) Color Matching

## Similar Product Search

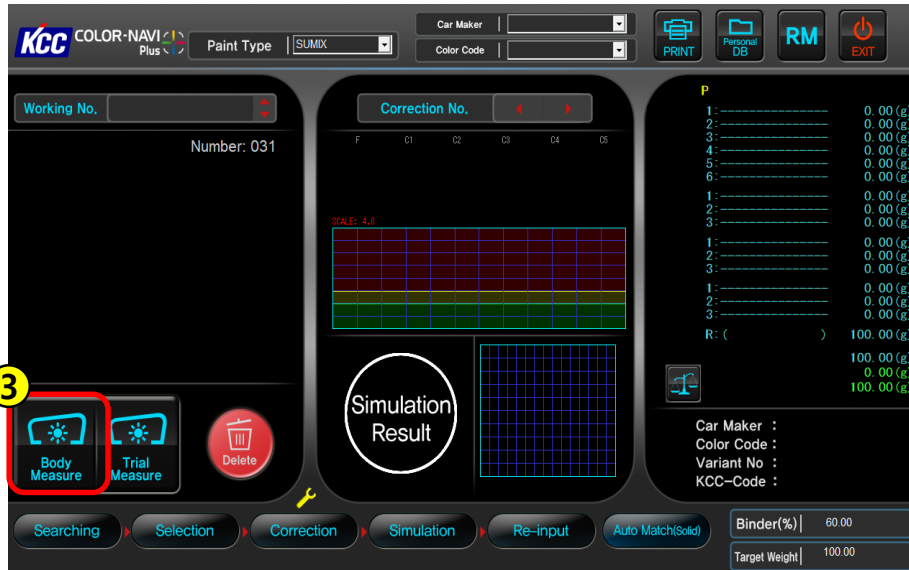


1. Select SUMIX as the paint type.
2. Press the mode selection button at the top and switch it to 'RM'."

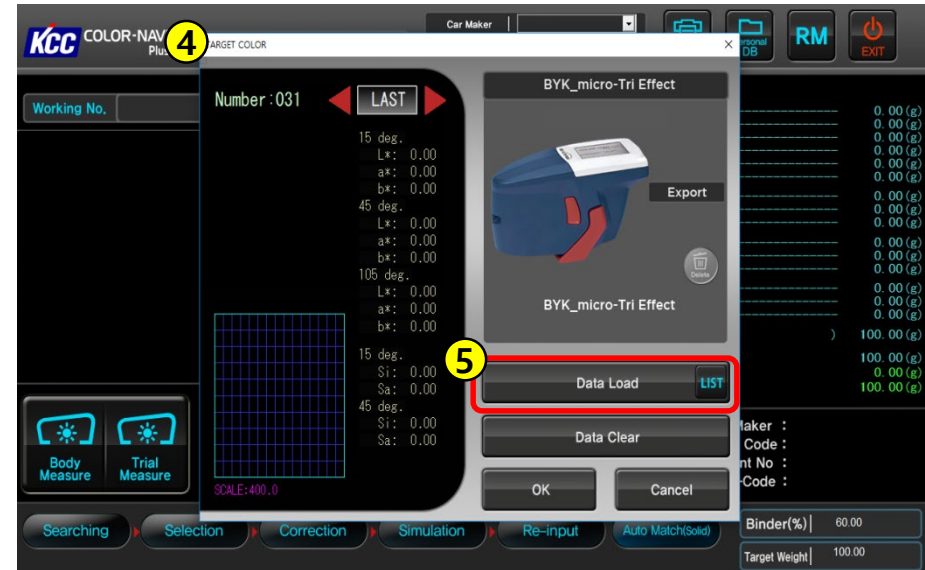


## ⑥ Waterborne RM(WT5000) Color Matching

### Similar Product Search



3. Click the 'Body Measure' button.



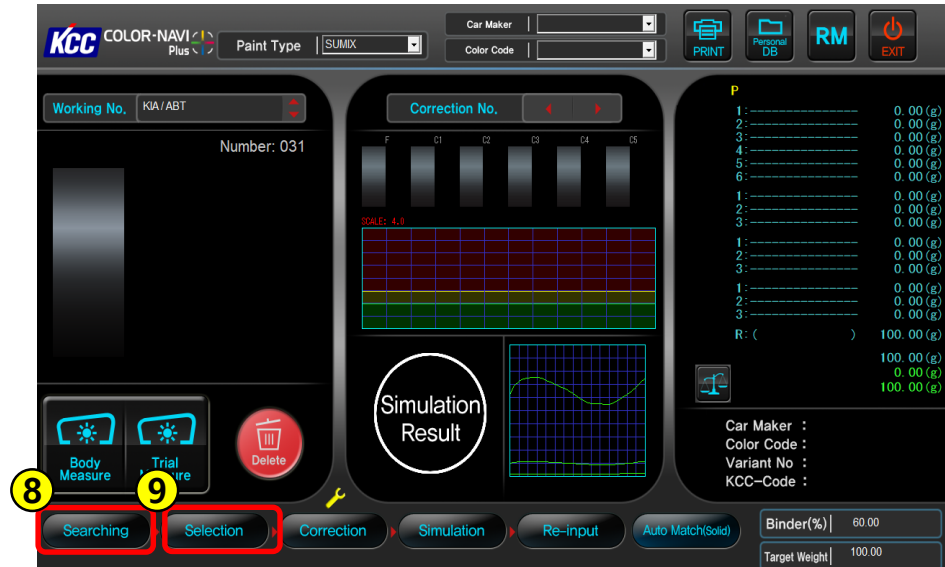
4. The spectrophotometer data window opens as follows.

5. Click the 'Data Load' button.



6. The measurement data will be displayed.

7. Click the 'OK' button to confirm.



8. Click the 'Searching' button.

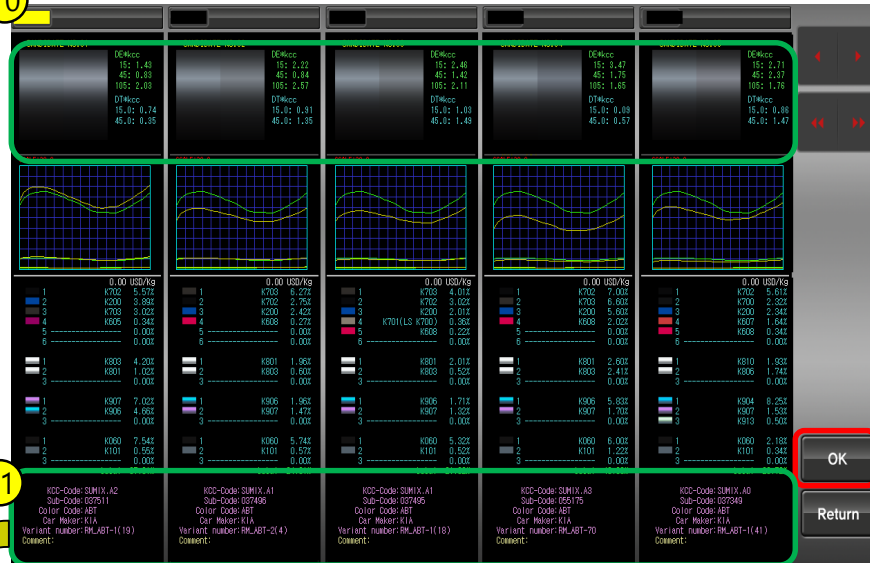
9. Click the 'Selection' button.



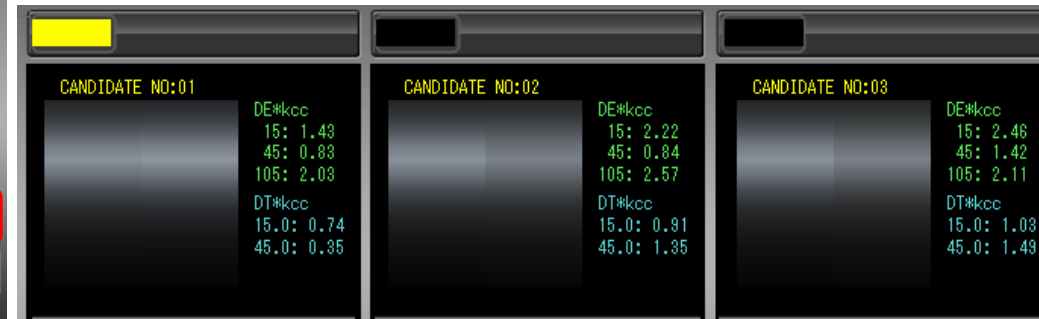
## ⑥ Waterborne RM(WT5000) Color Matching

### Similar Product Search

10



- 1) Select the smallest DE\*KCC(color difference) value
- 2) A smaller color difference at 45°(face) and 105°(shade) than at 15°(high light) is more advantageous for additional color adjustments.



10. 'Selection' window open

11. Check product information for WT5000(Water-borne RM).

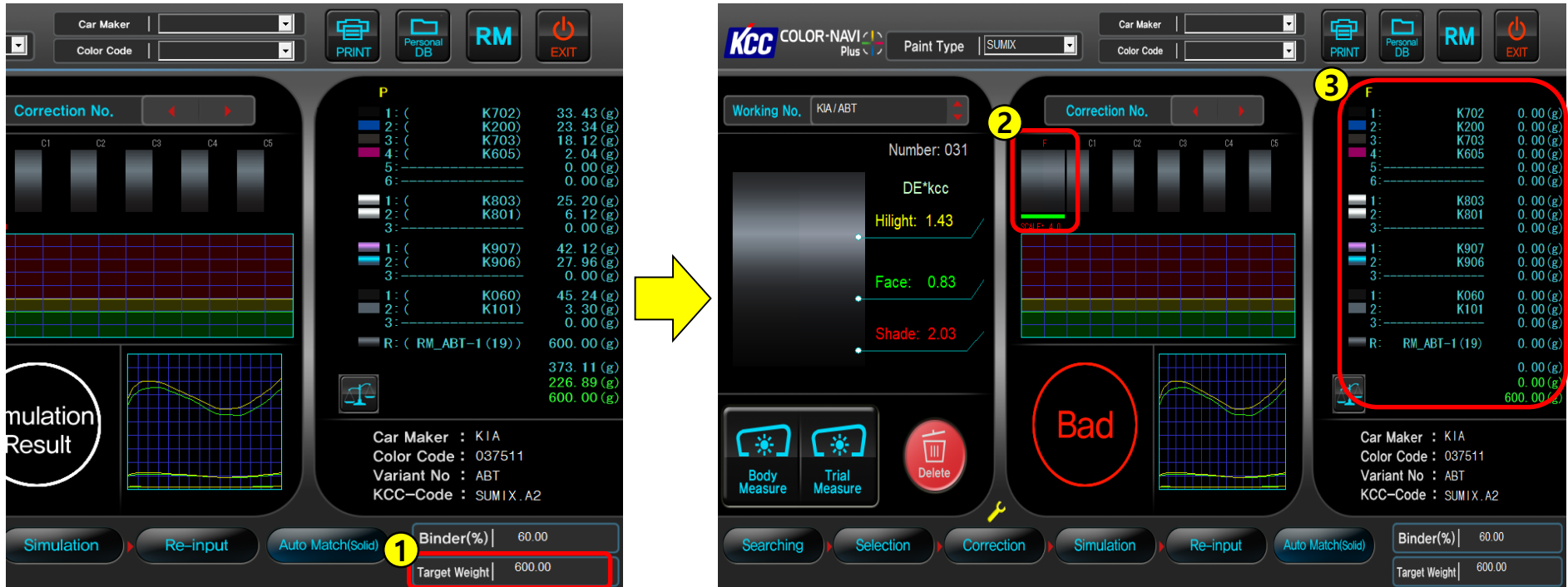
Refer to the variant number. And select the product(color) with the smallest color difference within the same color code.

### Example

<p>KCC-Code: SUMIX.A2 Sub-Code: 037511 Color Code: ABT Car Maker: KIA Variant number: RM_ABT-1(19) Comment:</p>	<p>KCC-Code: SUMIX.A1 Sub-Code: 037496 Color Code: ABT Car Maker: KIA Variant number: RM_ABT-2(4) Comment:</p>	<p>KCC-Code: SUMIX.A1 Sub-Code: 037495 Color Code: ABT Car Maker: KIA Variant number: RM_ABT-1(18) Comment:</p>	<p>KCC-Code: SUMIX.A3 Sub-Code: 055175 Color Code: ABT Car Maker: KIA Variant number: RM_ABT-70 Comment:</p>
WT5000-ABT-1(19)	WT5000-ABT-2(4)	WT5000-ABT-1(18)	WT5000-ABT-70

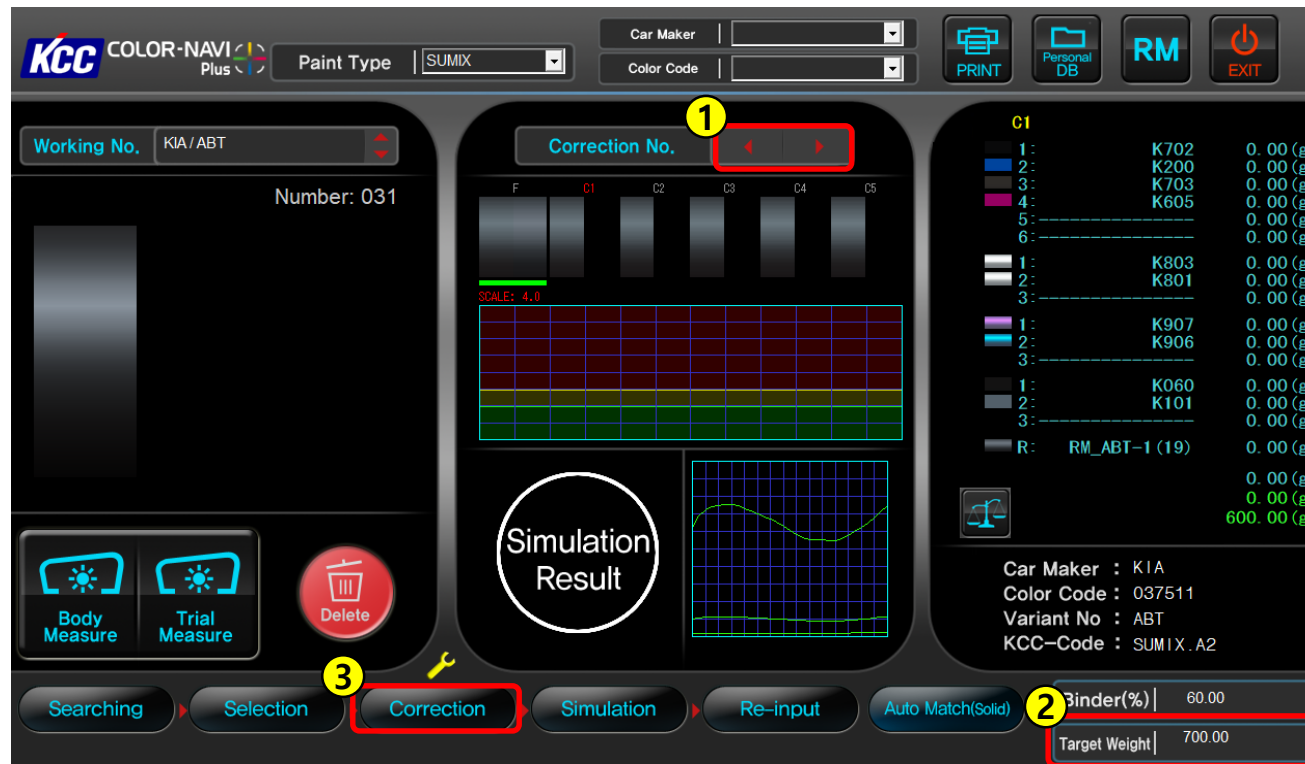
## ⑥ Waterborne RM(WT5000) Color Matching

### RM Additional Tinting (Color Formula Correction)



- ① Enter the total weight of WT5000 paint for the "Target weight". (Can weight: 92g)  
cf) If measuring the total weight including the WT5000 can is 700g → Enter 608.00 (700g - 92g = 608g)
- ② Measure the painted test panel using "F" with the previously used WT5000.
- ③ F formulation must not include any additional paint input.

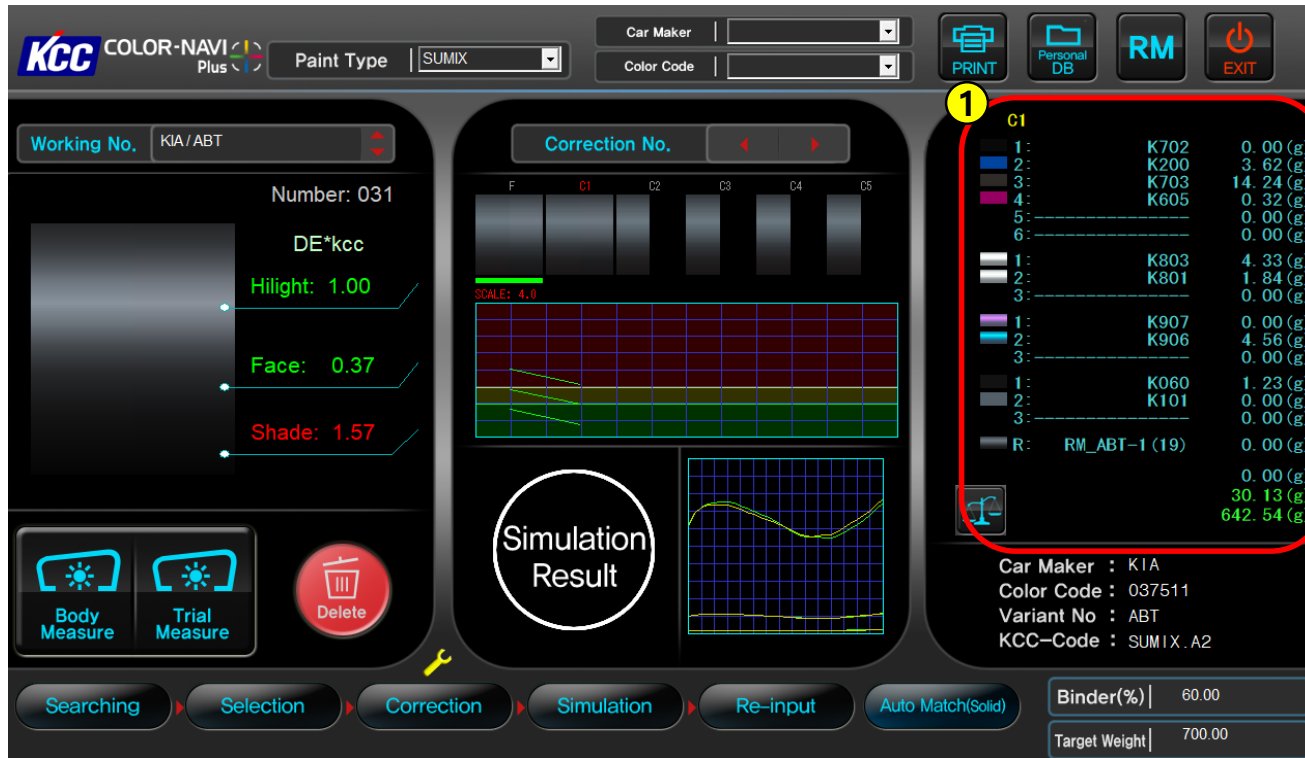
## ⑥ Waterborne RM(WT5000) Color Matching RM Additional Tinting (Color Formula Correction)



- ① Use the 'Correction Number Move' button at the top to move the correction number from F to C1.
- ② After moving to C1, enter the **"Target Weight"** higher than the previously input paint weight.  
(Recommended Target Weight = Maximum correction amount of paint, approximately previous paint remaining + 100g.)
- ③ Press the **"Correction"** button to check the additional amount of paint required.

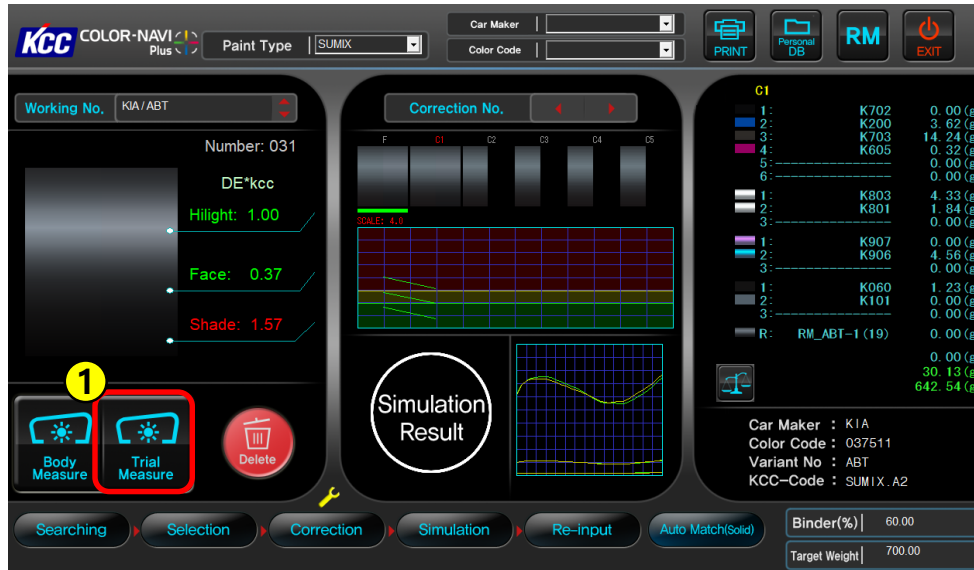
## ⑥ Waterborne RM(WT5000) Color Matching

### RM Additional Tinting (Color Formula Correction)

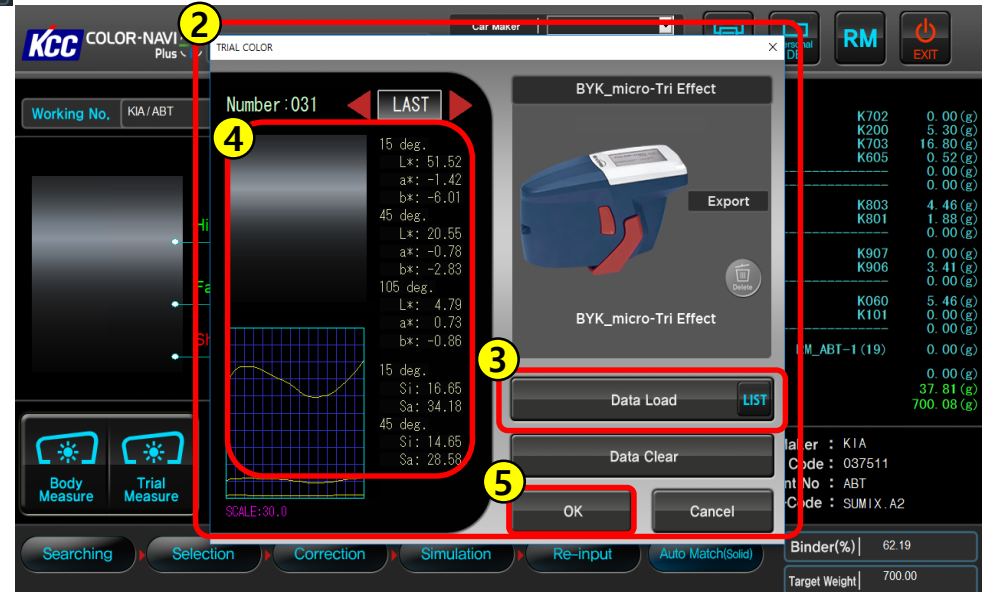


1. After checking the additional amount, add it to the WT5000 paint.
2. Apply the prepared paint to the test panel.
3. After the color coat dries, apply a clear coat.
4. Dry the test panel (clear coat).
5. Let the dried test panel cool at room temperature for 1-2 minutes.
6. Measure the test panel using the spectrophotometer.

## ⑥ Waterborne RM(WT5000) Color Matching RM Additional Tinting (Color Formula Correction)



1. Click the "Trial Measure" button.
2. The spectrophotometer data window opens as follows.
3. Click the "Data Load" button.
4. The measurement results will be displayed on the screen.
5. Click the "OK" button.



## ⑥ Waterborne RM(WT5000) Color Matching RM Additional Tinting (Color Formula Correction)

**REINPUT**

No.	Color	Toner	Ratio	Weight	Amount	Action
1		K702	4.775%	23.873	0.000	Delete
2		K200	4.091%	20.455	5.300	Delete
3		K703	4.988%	24.940	16.800	Delete
4		K605	0.366%	1.829	0.521	Delete
5			0.000%	0.000	0.000	Delete
6			0.000%	0.000	0.000	Delete
1		K803	4.236%	21.182	4.480	Delete
2		K801	1.143%	5.713	1.880	Delete
3			0.000%	0.000	0.000	Delete
1		K907	6.017%	30.085	0.000	Delete
2		K906	4.481%	22.405	3.407	Delete
3			0.000%	0.000	0.000	Delete
1		K060	7.242%	36.211	5.456	Delete
2		K101	0.471%	2.357	0.000	Delete
3			0.000%	0.000	0.000	Delete
<b>Total</b>		<b>37.810%</b>	<b>189.050</b>	<b>37.814</b>	<b>37.820</b>	<b>( 0.000 )</b>
<b>Current Weight before Adding</b>					<b>500.000</b>	
<b>Adding Weight of Other Paint Materials</b>					<b>0.000</b>	
<b>Final Current Weight</b>					<b>537.820</b>	

**Input Mode**

%

Qt.

Data Clear

OK

Return

**Working No.** KIA / ABT

**Body Measure** **Trial Measure**

**Searching** **Selection** **Correction** **Simulation** **Re-input** **Auto Match(Solid)**

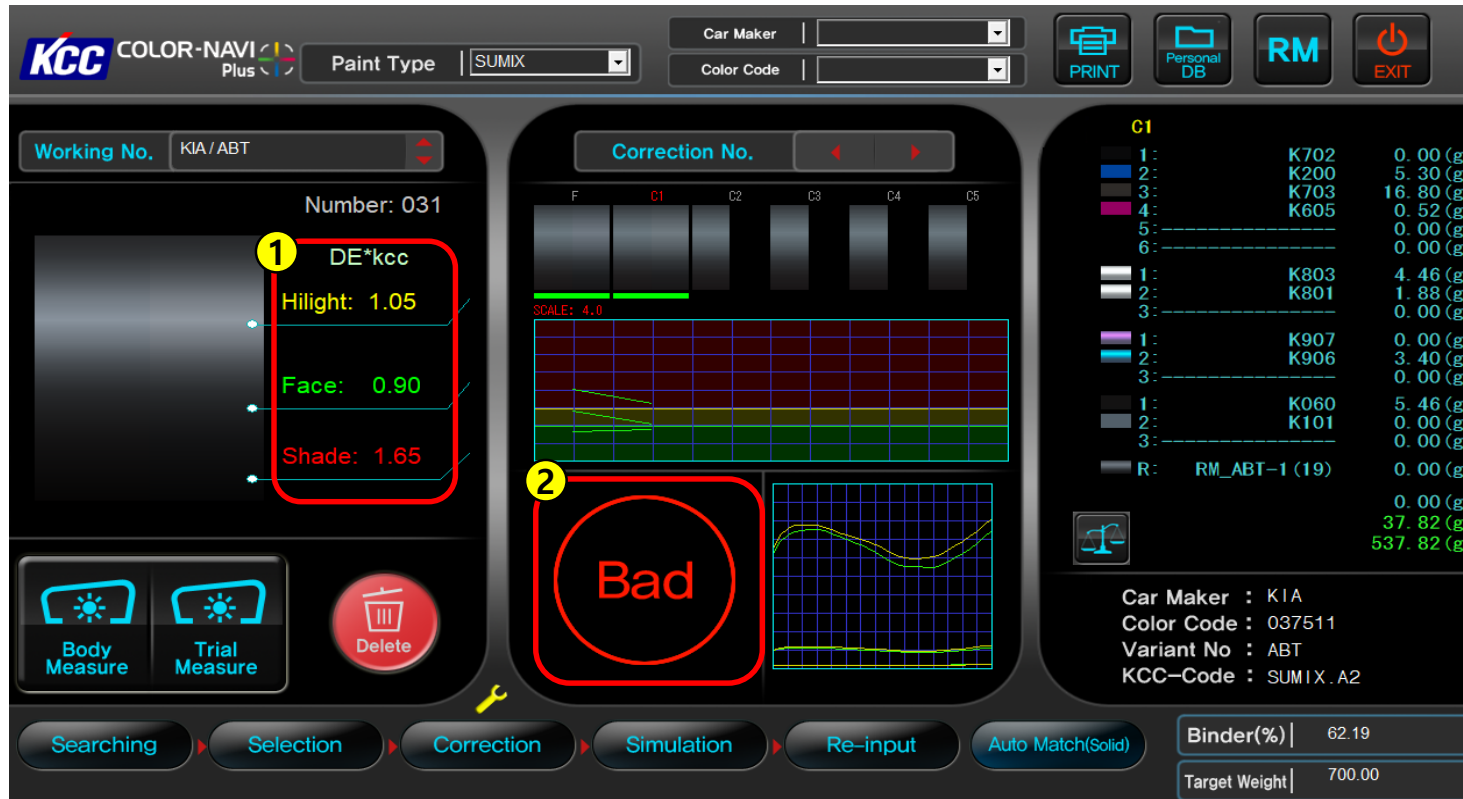
**Binder(%)** 62.19

**Target Weight** 700.00

- ① Click the 'Re-input' button at the bottom.
- ② Enter the actual amounts of each toner added.
- ③ Enter the remaining paint amount in 'Current Weight before Adding'  
(For example, if 100g out of 600g was used for the F panel , enter 500g.)
- ④ Click the 'OK' button.

## ⑥ Waterborne RM(WT5000) Color Matching

### RM Additional Tinting (Color Formula Correction)



1. Check the color difference (DE\*KCC) at each angle : High light(15'), Face(45'), Shade(105')
2. The color difference is classified into three levels: "Good", "Similar" and "Bad"
3. Based on these results, decide whether to proceed with further adjustments (correction).



## ⑥ Waterborne RM(WT5000) Color Matching RM Additional Tinting (Color Formula Correction)

**KCC COLOR-NAVI Plus**

Paint Type: SUMIX

Car Maker: [Dropdown]

Color Code: [Dropdown]

Working No.: KIA / ABT

Number: 031

Correction No. [Correction Number Move]

SCALE: 4.0

Simulation Result

Body Measure Trial Measure Delete

Searching Selection Correction Simulation Re-input Auto Match(Solid)

Binder(%) | 62.19

Target Weight | 700.00

C2	Color Code	Weight (g)
1	K702	0.00 (g)
2	K200	0.00 (g)
3	K703	0.00 (g)
4	K605	0.00 (g)
5		0.00 (g)
6		0.00 (g)
1	K803	0.00 (g)
2	K801	0.00 (g)
3		0.00 (g)
1	K907	0.00 (g)
2	K906	0.00 (g)
3		0.00 (g)
1	K060	0.00 (g)
2	K101	0.00 (g)
3		0.00 (g)
R	RM_ABT-1 (19)	0.00 (g)
		0.00 (g)
		0.00 (g)
		537.82 (g)

Car Maker : KIA  
Color Code : 037511  
Variant No : ABT  
KCC-Code : SUMIX.A2

① If the results are unsatisfactory, use the "Correction Number Move" button at the top to proceed to the next correction.

1) Direction for Moving Numbers:

- Forward: F → C1 → C2 → C3 → C4
- Backward: Reverse of the above.

## ⑥ Waterborne RM(WT5000) Color Matching RM Additional Tinting (Color Formula Correction)

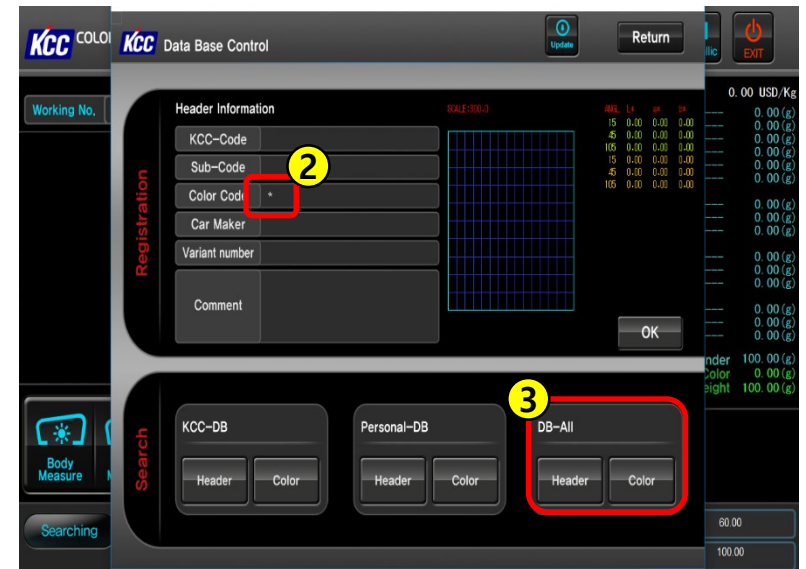
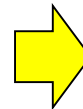
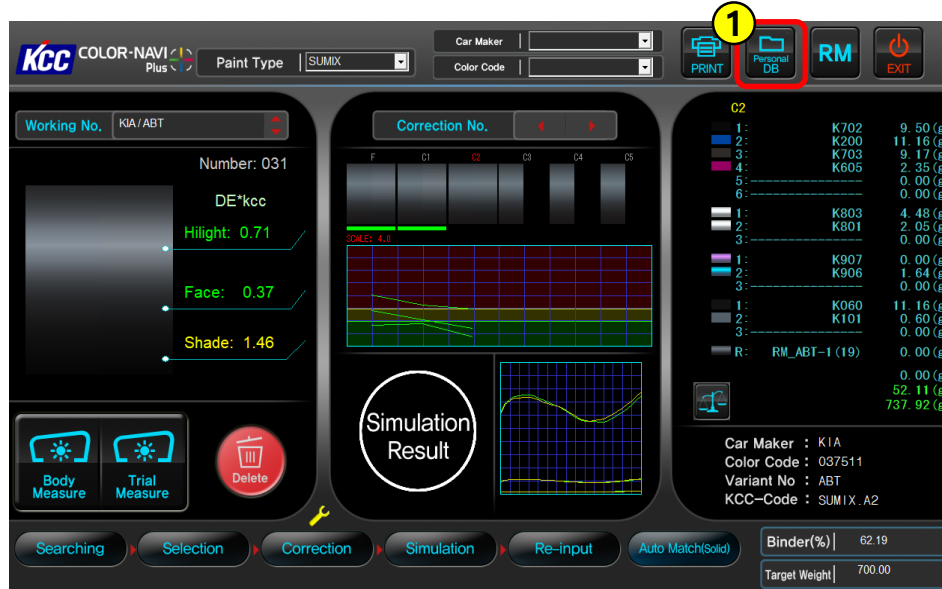
The screenshot displays the KCC COLOR-NAVI Plus software interface for RM Additional Tinting (Color Formula Correction). The interface is divided into several sections:

- Top Bar:** Includes the KCC logo, 'COLOR-NAVI Plus', 'Paint Type' (SUMIX), 'Car Maker' (KIA), and 'Color Code' (037511).
- Left Panel:** Shows 'Working No.' (KIA/ABT), 'Number: 031', and 'DE\*kcc' with 'Hilight: 0.71', 'Face: 0.37', and 'Shade: 1.46'. It also has 'Body Measure' and 'Trial Measure' buttons.
- Center Panel:** Features a 'Correction No.' section with a grid showing C1 and C2. A yellow '1' is placed over the C2 column. Below this is a 'Simulation Result' section with a graph.
- Right Panel:** Displays a list of color formulas for C2, including K702, K200, K703, K605, K803, K801, K907, K906, K060, and K101. A red box highlights this section, and a yellow '3' is placed over it.
- Bottom Bar:** Contains buttons for 'Searching', 'Selection', 'Correction' (highlighted with a red box and a yellow '2'), 'Simulation', 'Re-input', and 'Auto Match(Solid)'. It also shows 'Binder(%)' (62.19) and 'Target Weight' (700.00).

1. Move the correction number from C1 to C2.
2. Click the **"Correction"** button at the bottom.
  - The program will automatically create an updated correction formula.
3. Use the updated formula to prepare a new test panel.
4. Measure the prepared panel, evaluate the matching level, and:
  - If satisfactory, complete the process.
  - If unsatisfactory, repeat the procedure.

## ⑦ Database Management

### Set Color Search Database (DB-All)



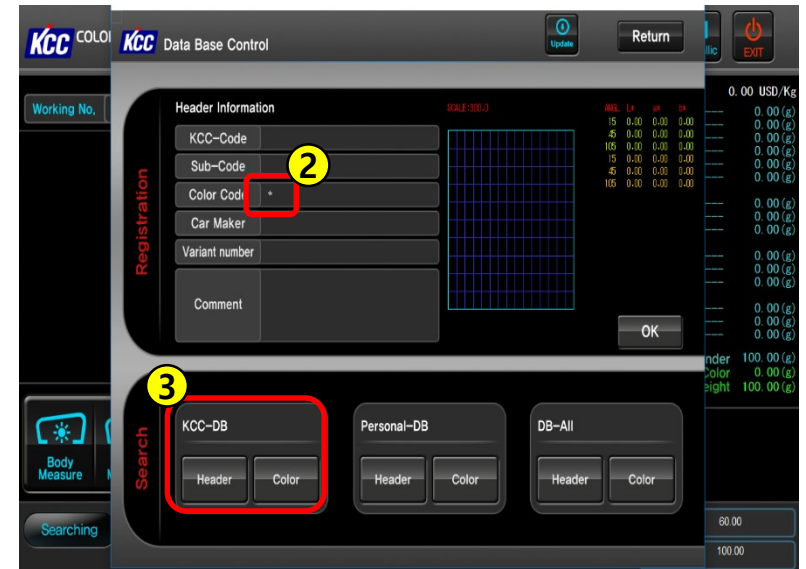
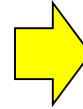
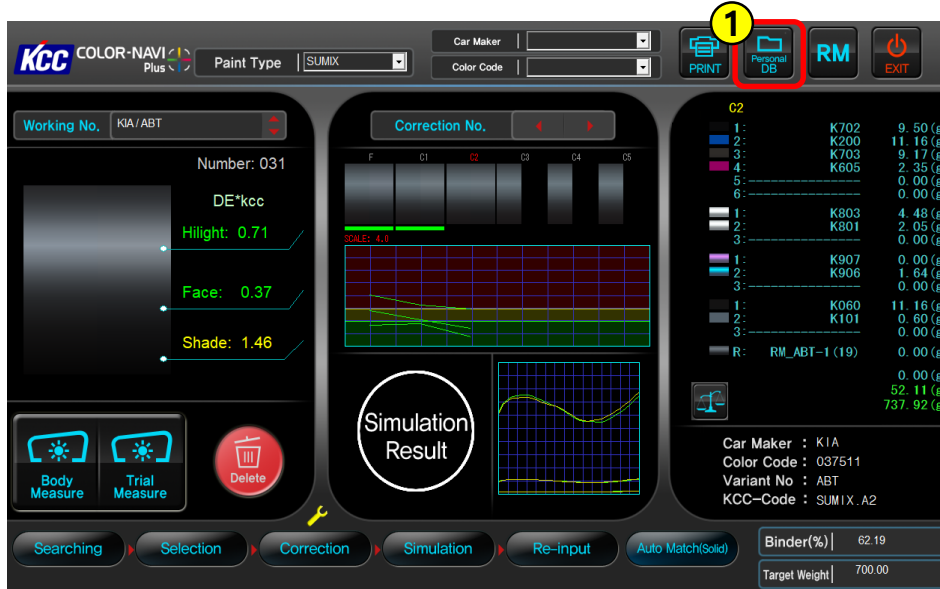
- ① Click the 'Personal DB' button at the top.
- ② When the 'Data Base Control' window opens, enter '\*' in the 'Color Code' field.
- ③ In the "Search" section, click the DB-All > 'Header' button.
- ④ When the database window opens as shown, click the "X" button in the upper-right corner to close the window.
- ⑤ When performing a color search afterward, formulas will be retrieved from all data stored in both the KCC-DB and Personal-DB.

*Note: The default setting is DB-All at initial startup.*



## ⑦ Database Management

### Set Color Search Database (KCC-DB)



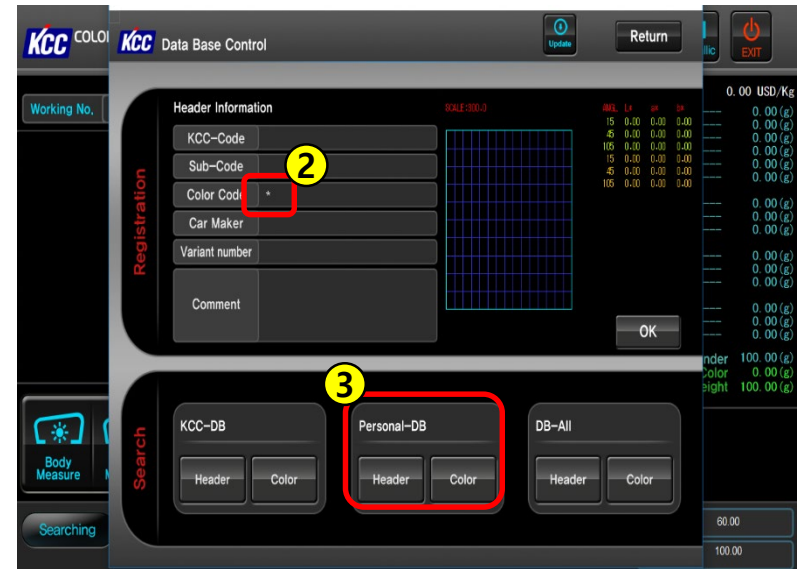
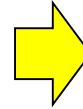
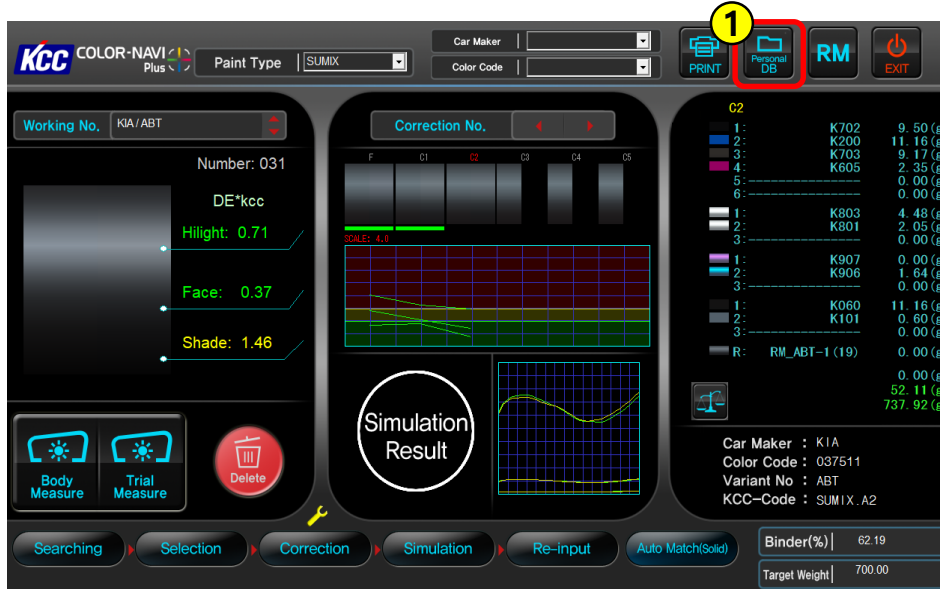
- ① Click the 'Personal DB' button at the top.
- ② When the 'Data Base Control' window opens, enter '\*' in the 'Color Code' field.
- ③ In the "Search" section, click the KCC-DB > 'Header' button.
- ④ When the database window opens as shown, click the "X" button in the upper-right corner to close the window.
- ⑤ When performing a color search afterward, formulas will be retrieved only from the data stored in the KCC-DB.

*Note: The default setting is DB-All at initial startup.*



## ⑦ Database Management

### Set Color Search Database (Personal-DB)

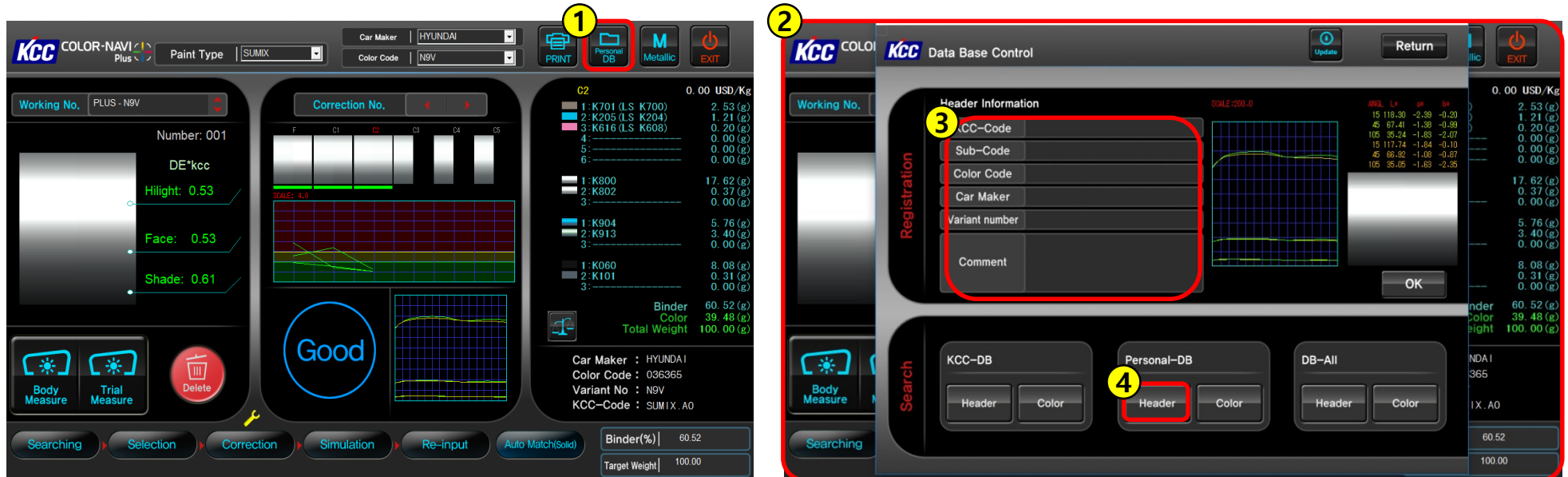


- ① Click the 'Personal DB' button at the top.
- ② When the 'Data Base Control' window opens, enter '\*' in the 'Color Code' field.
- ③ In the "Search" section, click the Personal-DB > 'Header' button.
- ④ When the database window opens as shown, click the "X" button in the upper-right corner to close the window.
- ⑤ When performing a color search afterward, formulas will be retrieved only from the data stored in the **Personal-DB**.

*Note: The default setting is DB-All at initial startup.*



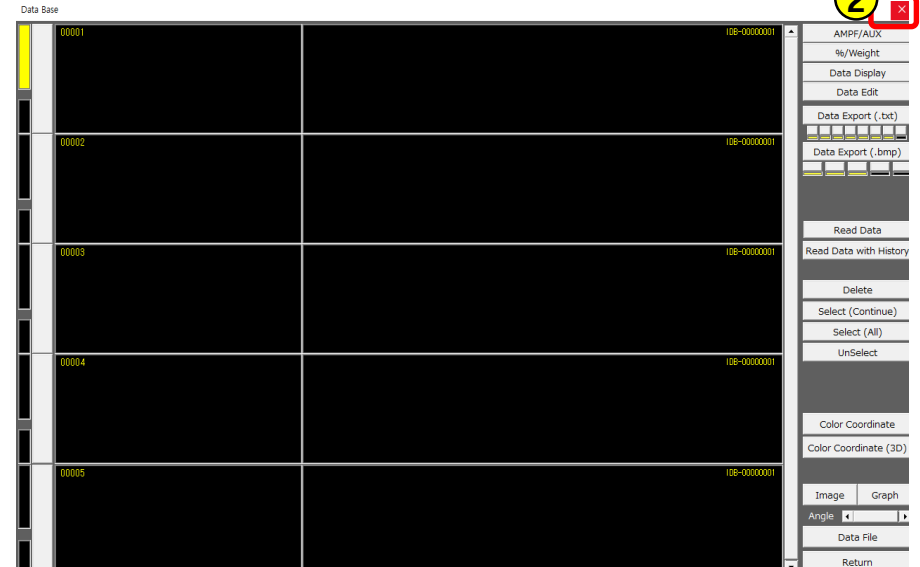
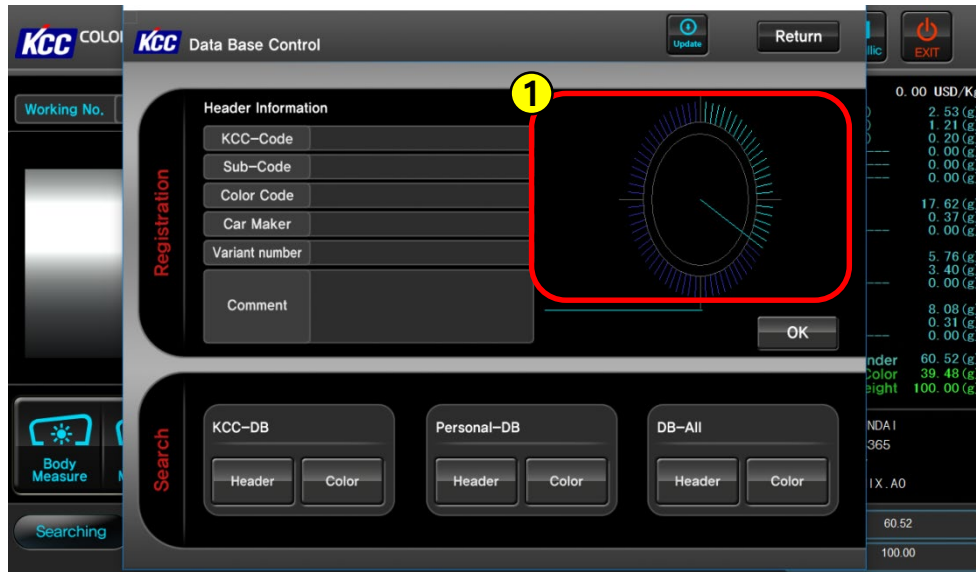
## ⑧ Saving Custom Formulas



- ① Click "Personal DB" in the upper-right corner of the home screen.
- ② The "Data Base Control" window will open.
- ③ Before entering a custom formula, make sure to clear all input fields in the "Registration" section.
- ④ Switch to the "Personal DB input mode" by clicking the "Header" button under the Personal-DB section in "Search".



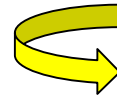
## ⑧ Saving Custom Formulas



- ① When you click the **"Header"** button under **Personal-DB**, the clock hand will move as shown above, indicating that the custom formula is being loaded.
- ② Once the **"Data Base"** window opens as shown, click the **"X"** button in the upper-right corner to close the window.



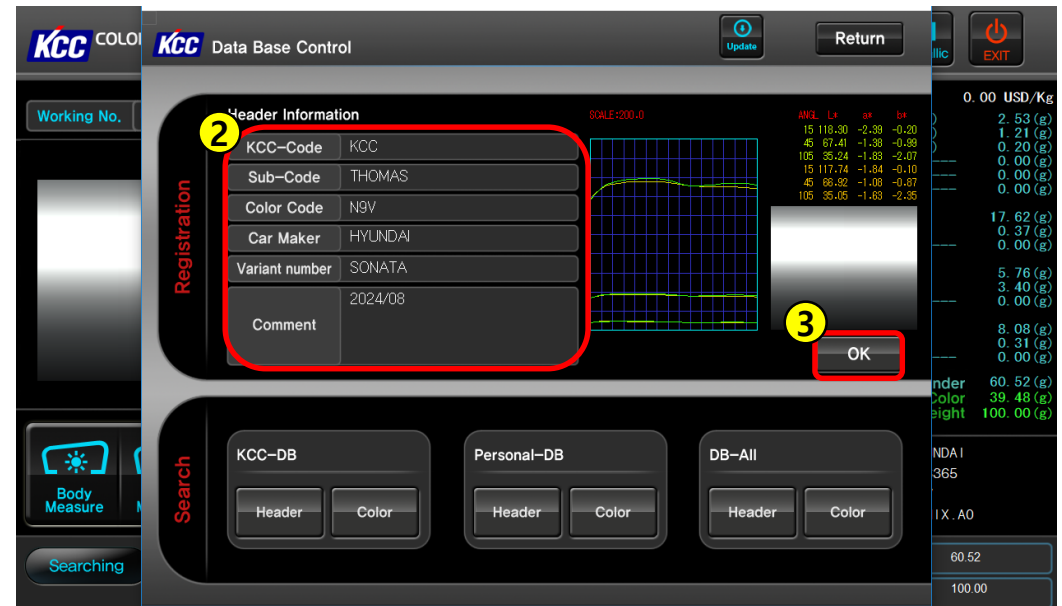
## ⑧ Saving Custom Formulas



- ① Click the "Working No."
- ② Select the number to save from the working number list.



## ⑧ Saving Custom Formulas



- ① Click the **"Personal DB"** button at the top.
- ② Enter the color information in each input field under the **"Registration"** section.  
*Tip: When registering, set consistent rules for each field to make future searches more convenient.*
- ③ After entering each field, click the **"OK"** button.

## ⑧ Saving Custom Formulas

The screenshot displays the KCC software interface. The main window shows a list of custom formulas, each with a unique ID (e.g., 00001, 00002, 00003) and a corresponding color swatch. The formulas are organized into columns, showing the input values (e.g., 1: 6.23, 2: 2.90, 3: 1.85, 4: 1.74, 5: 1.89) and the resulting color values (e.g., 1K701(LS K700), 2K205(LS K204), 3K616(LS K608)). The formulas are also categorized by color (e.g., 1K904, 2K913, 1K060, 2K101) and include a total percentage (e.g., 38.65%, 39.37%, 39.48%).

The sidebar on the right contains the following options:

- AMPF/AUX
- %/Weight
- Data Display
- Data Edit
- Data Export (.txt)
- Data Export (.bmp)
- Read Data
- Read Data with History
- Delete
- Select (Continue)
- Select (All)
- UnSelect
- Color Coordinate
- Color Coordinate (3D)
- Image
- Graph
- Angle
- Data File
- Return

- Once the input is complete, you can confirm that both the intermediate processes and the final formula for the color you worked on have been registered as shown above.

## ⑧ Saving Custom Formulas

**KCC Data Base Control**

**Registration**

Header Information

KCC-Code: KCC

Sub-Code

Color Code

Car Maker

Variant number

Comment

OK

**Search**

KCC-DB

Header Color

Personal-DB

Header Color

DB-All

Header Color

**KCC Data Base Control**

**Registration**

Header Information

KCC-Code

Sub-Code

Color Code: N9V

Car Maker

Variant number

Comment

OK

**Search**

KCC-DB

Header Color

Personal-DB

Header Color

DB-All

Header Color

- ① As shown above, you can search for custom formulas by entering color information such as "KCC-Code," "Color Code," and "Car Maker" in the "Data Base Control" window.
- ② After entering the search terms, click "Header" under **Personal-DB** in the "Search" section

**KCC Data Base Control**

**Registration**

Header Information

KCC-Code

Sub-Code

Color Code

Car Maker: HYUNDAI

Variant number

Comment

OK

**Search**

KCC-DB

Header Color

Personal-DB

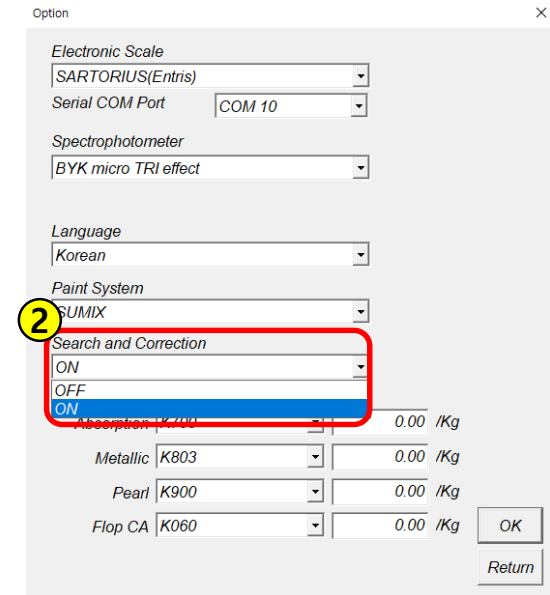
Header Color

DB-All

Header Color

## ⑨ COLOR-NAVI Add-on

### Search and Correction (SAC) Function



① Click the **KCC logo** in the upper-left corner.

② Change the **Search and Correction (SAC)** settings.

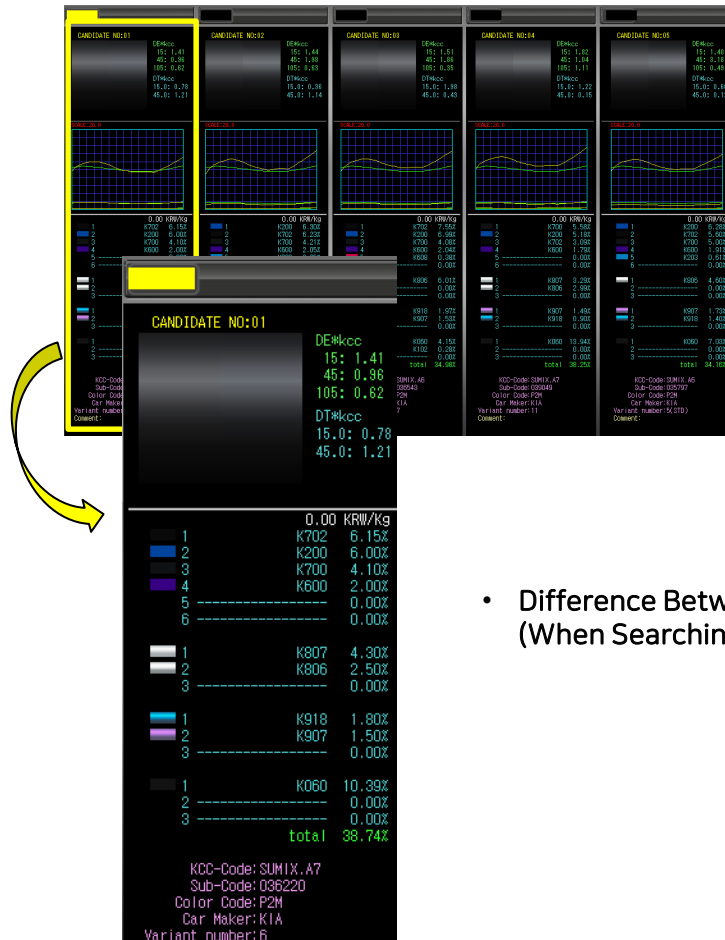
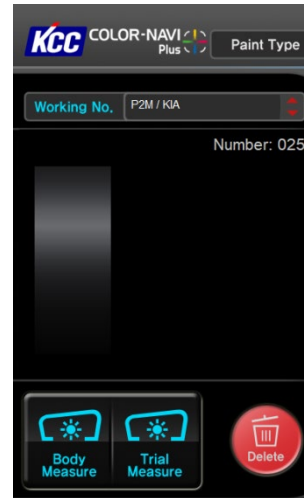
- **OFF (Disable SAC function):** Searches for similar colors (default, traditional method).  
The user manually decides whether to apply corrections after reviewing similar colors. (Recommended for experienced users)
- **ON (Enable SAC function):** Searches for similar colors and applies automatic corrections.  
Automatically corrects the top-ranked formulas during similar color searches and provides the top 10 optimized formulas.  
→ Enhances work efficiency by simplifying the creation of initial formulas.

## ⑨ COLOR-NAVI Add-on

### Search and Correction (SAC) Function

Search and Correction OFF

Search and Correction ON

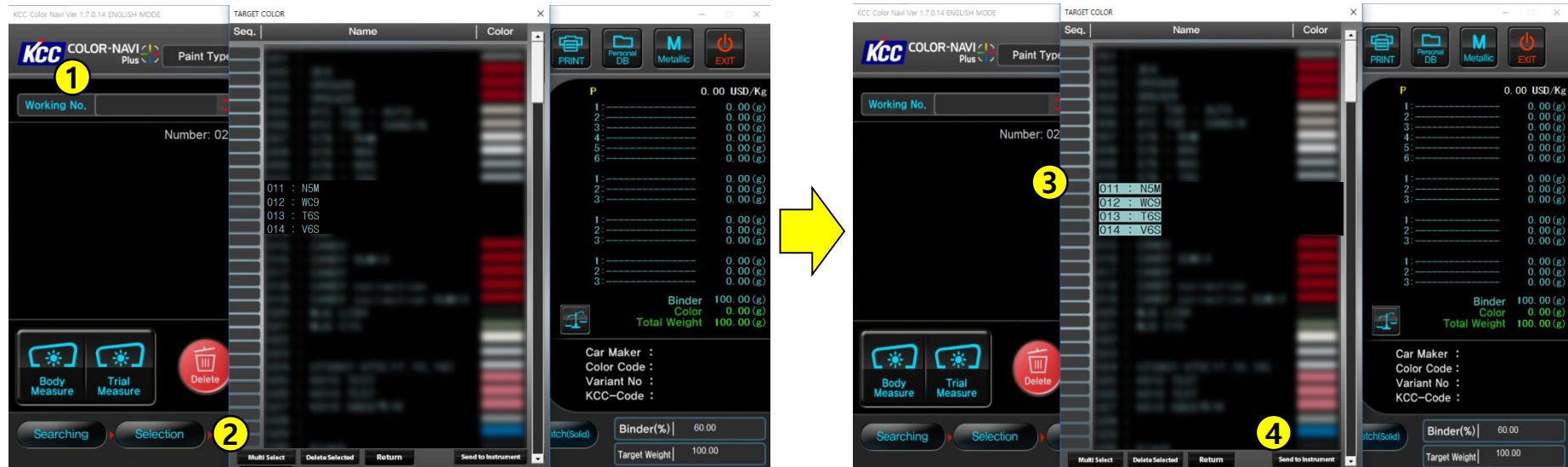


- Difference Between SAC ON/OFF  
(When Searching with the Same Color Values)



## ⑨ COLOR-NAVI Add-on

### Multi-Save Function for Spectrophotometer



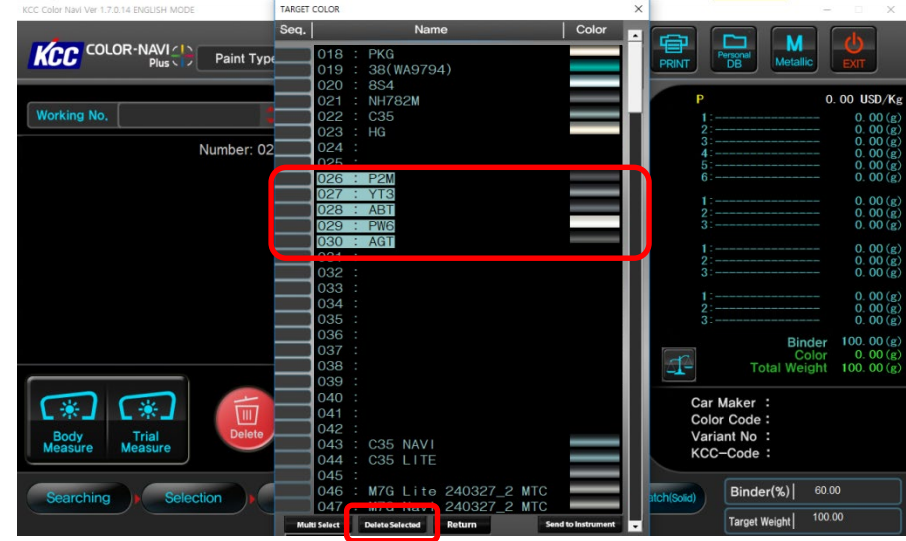
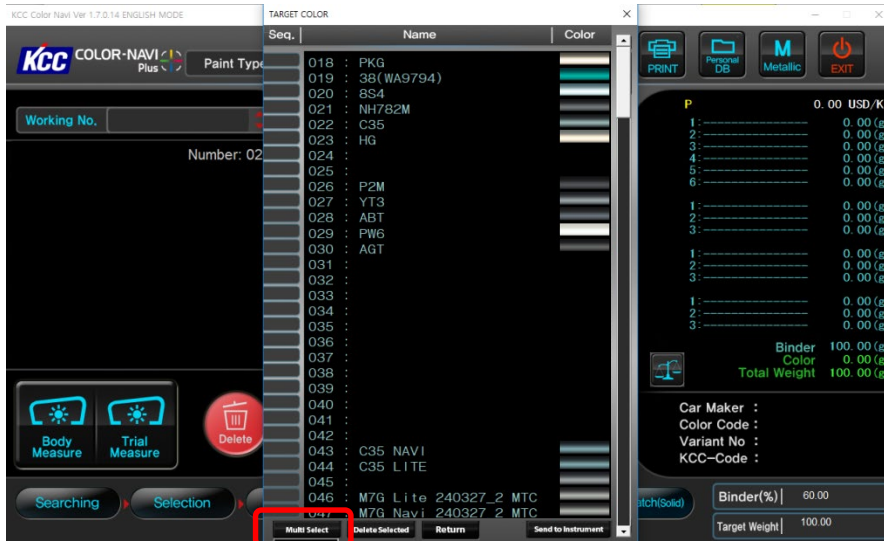
- ① Enter the job name in the "Working No." field, then click "Working No."  
*Note: Job names can only contain letters and numbers.*
- ② Click "Multi Select" at the bottom.
- ③ Select the job names to be measured using the spectrophotometer.
- ④ Click "Send to Instrument."
- ⑤ Confirm the job names sent to the spectrophotometer and proceed with the measurement.
  - In the example shown, **Sample #519** is a number generated by the spectrophotometer, while the four items below it are the list of jobs sent from the PC to the spectrophotometer.
  - After measurement, click **Vehicle Measurement** in the Color-Navi program to automatically import the measurement values.



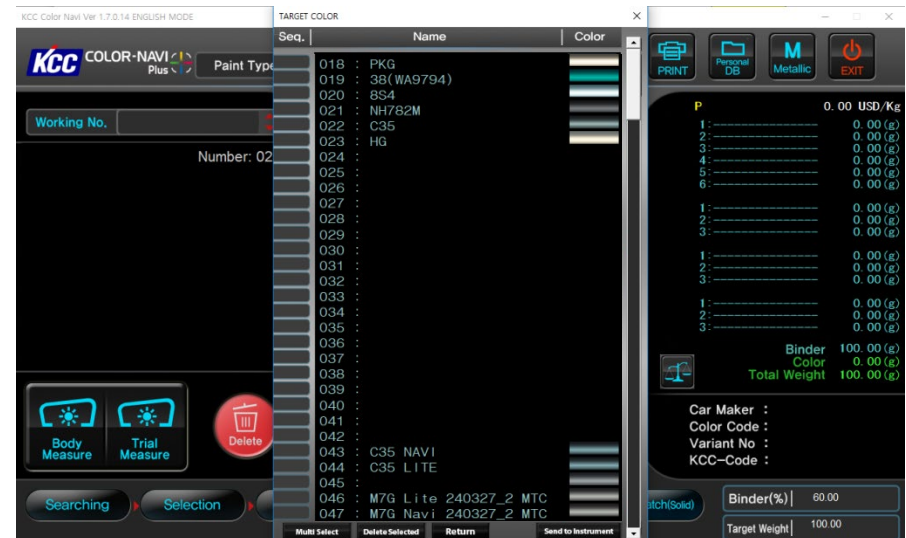


## ⑨ COLOR-NAVI Add-on

### Multi-Delete Function for Working Numbers

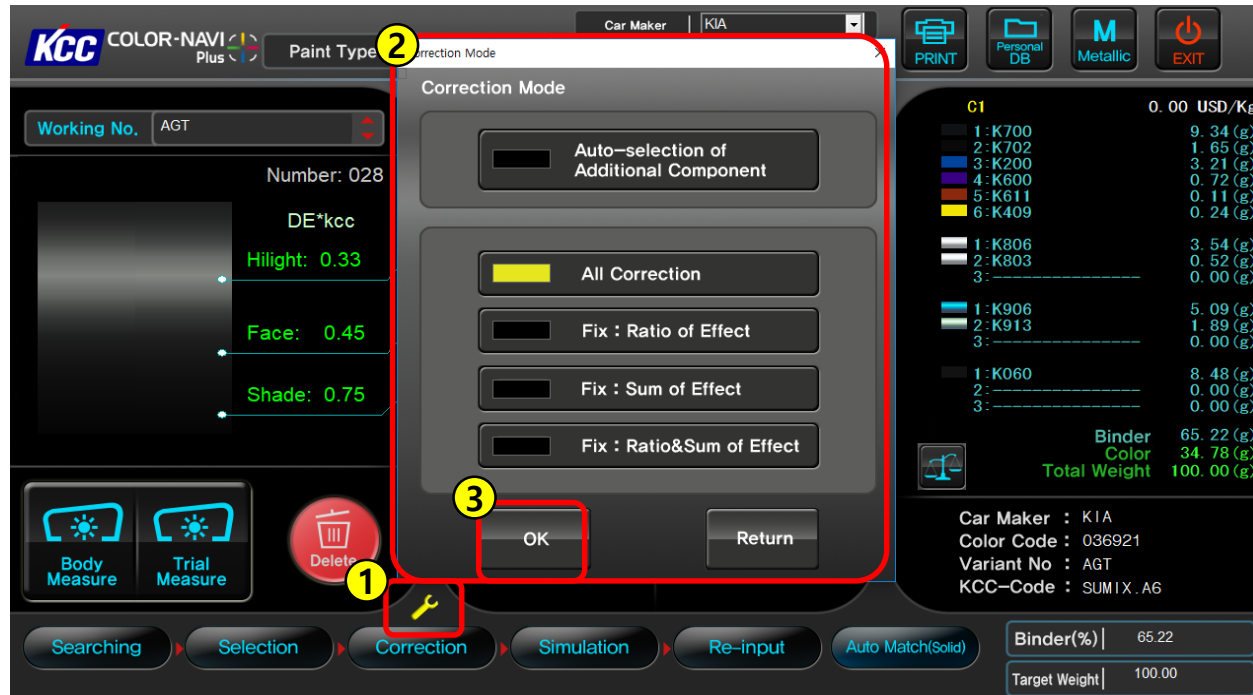


- ① Click "Multi Select" at the bottom.
- ② Click the job names to delete, then click "Delete Selected".
- ③ Confirm that the selected items have been deleted.
- ④ Once the deletion is complete, deselect "Multi Select".



## ⑨ COLOR-NAVI Add-on

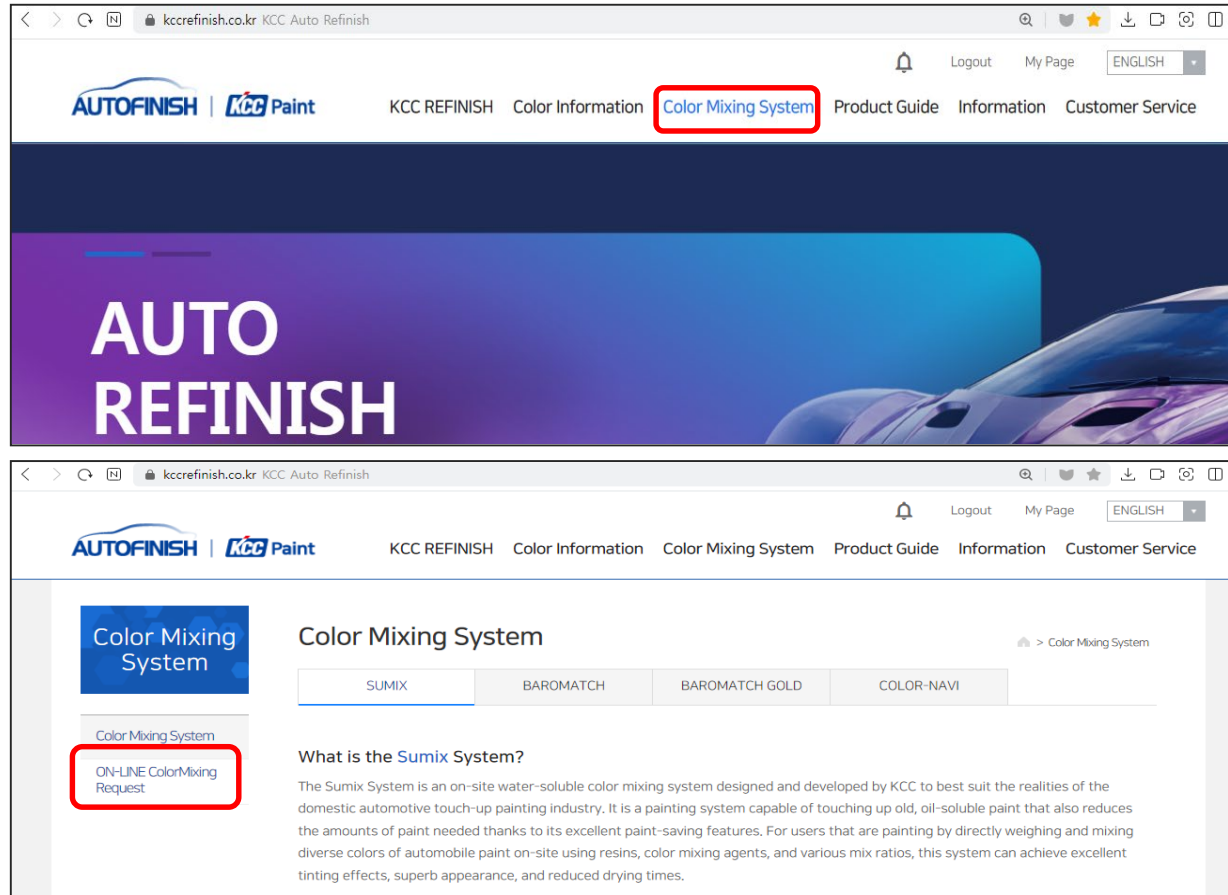
### Metallic Particle Lock Option for Formula Correction



- ① Click the "Correction Mode" button located above "Correction."
- ② When the **Correction Mode** window opens, you can configure options to lock the particle size and quantity during automatic correction for metallic/pearl color formulas.  
*Tip:* If the automatically corrected formula's color is satisfactory but you want to adjust the metallic particle size or quantity, select the appropriate options:
  - **Auto-selection of Additional Component** : Allows unlimited addition of toners in the formula for precise color matching.
  - **All Correction** : Adjusts color and brightness without considering particle size or quantity.
  - **Fix : Ratio of Effect** : Prevents formulas that increase or decrease particle size.
  - **Fix : Sum of Effect** : Prevents formulas that increase or decrease the total volume of particles.
  - **Fix : Ratio&Sum of Effect** : Fixes the metallic/pearl formula amounts completely.
- ③ After selecting the desired option, click the **OK** button.

## ⑩ Online Color Matching Request (COLOR-NAVI PLUS Only)

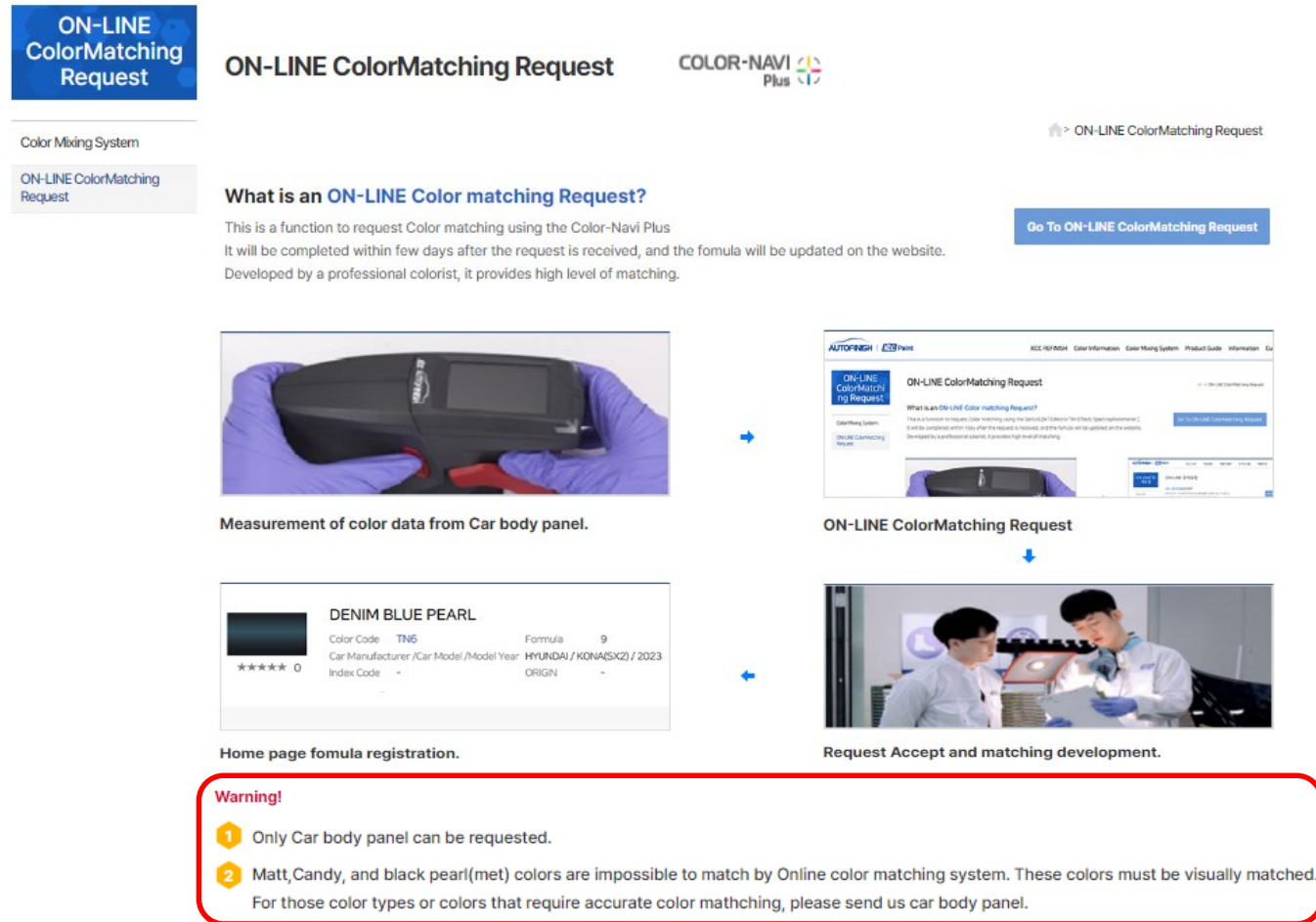
### How to Access the Color Matching Request Page



1. Access the KCC Refinish website at ([www.kccrefinish.com](http://www.kccrefinish.com)).
2. Click the **Color Mixing System** menu on the homepage.
3. Navigate to **Color Mixing System -> ON-LINE Color Matching Request** tab.

## ⑩ Online Color Matching Request (COLOR-NAVI PLUS Only)

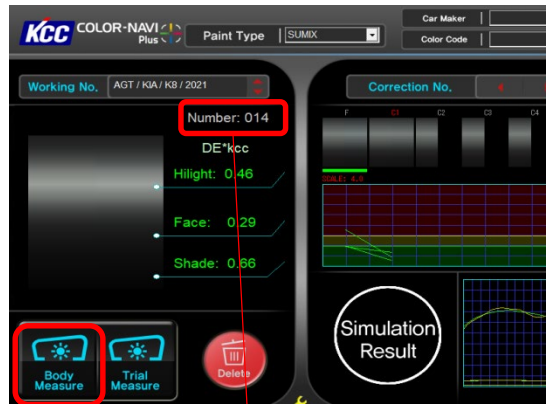
### How to Check the Color Matching Request Process



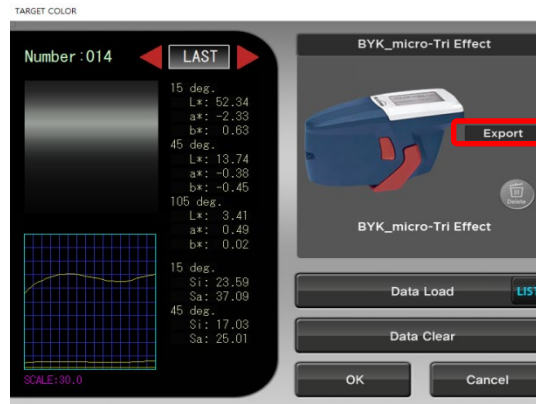
1. Color Mixing System -> ON-LINE Color Matching Request
2. You can view the method and steps for online color matching requests. Please make sure to carefully review and follow the warnings.

# ⑩ Online Color Matching Request (COLOR-NAVI PLUS Only)

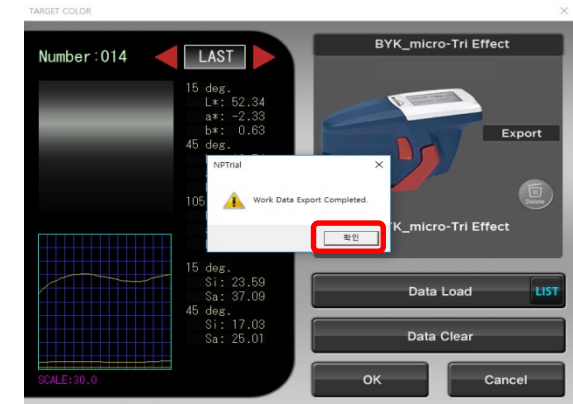
## How to Request Color Matching



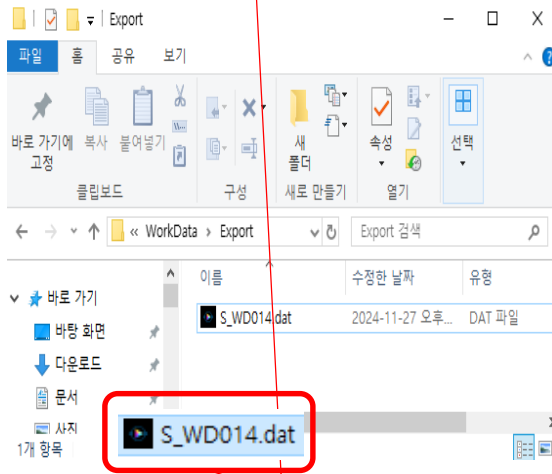
① Click Body Measure



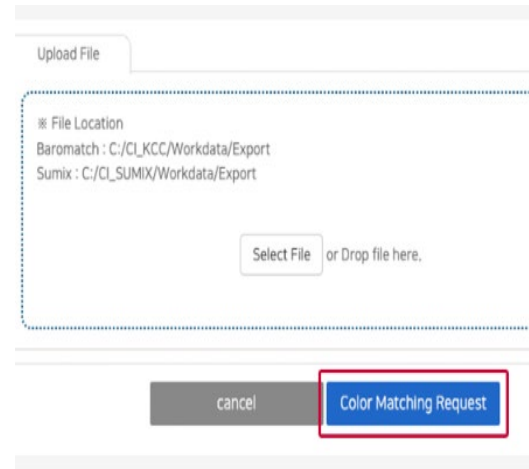
② Click Export



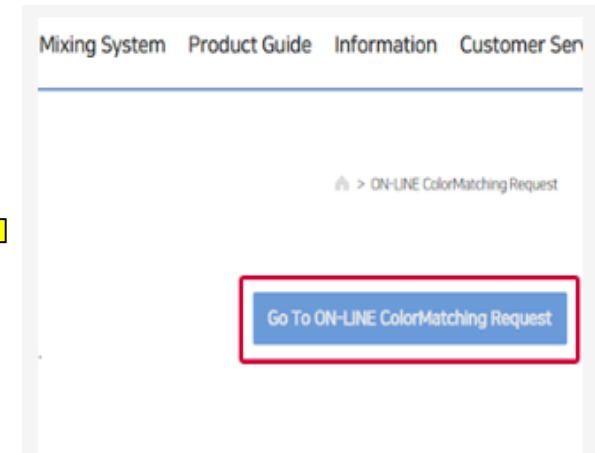
③ Click OK to confirm when the export is complete.



**Notice:** The number in the WorkData file name exported matches the Working Number, so please check it before uploading.  
For example: S\_WD001.dat ~ S\_WD200.dat.



⑤ Upload the color information and data file to the website.



④ Access the Color Matching Request tab on the website.



## ⑩ Online Color Matching Request (COLOR-NAVI PLUS Only)

### Color Matching Request Screen

#### ON-LINE ColorMatching Request

**Warning!**

- Only Car body panel can be requested.
- Matt, Candy, and black pearl(met) colors are impossible to match by Online color matching system. These colors must be visually matched.  
For those color types or colors that require accurate color matching, please send us car body panel.

🏠 > My Page > ON-LINE ColorMatching Request

registrant	박준하
Email	pjh1020@kccworld.co.kr
Products	BAROMATCH
Car Maker *	Essential
Color Code *	Essential
Model *	Essential
Customer Name *	Essential
Year	
Part Of Car	
Contents	
Attachments	<div style="border: 1px solid #ccc; padding: 5px;"> <p>Upload File</p> <p>• File Location Baromatch : C:/CI_KCC/Workdata/Export Sumix : C:/CI_SUMIX/Workdata/Export</p> <p>Select File or Drop file here.</p> </div>

cancel
Color Matching Request

- Please ensure all required fields are filled in accurately.
- Include any special notes or requests in the **Contents** field.
- Before attaching files, check that the attachment matches the requested working number.

### My Page - Color Matching Request History

[KCC REFINISH](#)
[Color Information](#)
[Color Mixing System](#)
[Product Guide](#)
[Information](#)
[Customer Service](#)

[Logout](#)
[My Page](#)
[ENGLISH](#)

#### My Page

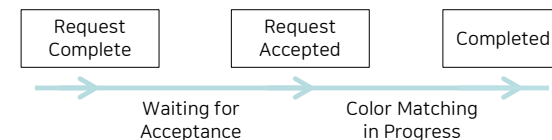
#### ON-LINE ColorMatching Request

🏠 > My Page > ON-LINE ColorMatching Request

Color Matching Request

	Number	Request Details	Request Date	Answer Date	Answer Status
1:1 Inquiry	7	Color matching, please	2024-11-27	2024-11-27	Completed
Check inquiry	6	교육용	2024-11-18	2024-11-18	Completed
Education Inquiry	5	11.15일까지 요청합니다.	2024-11-07	2024-11-07	Completed
Order History	4	온라인 조색 요청드립니다~	2024-11-06	2024-11-06	Request accepted
ON-LINE ColorMatching Request	3	11.11일까지 요청합니다	2024-11-04	2024-11-04	Completed
	2	테스트용입니다.	2023-09-...	2023-09-...	Completed
	1	테스트용입니다.	2023-09-18	2023-09-18	Completed

- This is the **ON-LINE Color Matching Request** tab in **My Page**, showing the list of color matching requests.
- There are three response statuses:
  - Request Complete** - The color matching request has been submitted but not yet received.
  - Request Accepted** - The request has been received and is currently in progress.
  - Completed** - The color matching process has been completed.
- ✓ When the request is first submitted, the status will show as **Request Complete**. Once the KCC colorist receives and starts processing the request, the status changes to **Request Accepted**, and after making color formula, it updates to **Completed**.



## ⑩ Online Color Matching Request (COLOR-NAVI PLUS Only)

### Confirm Completion of Color Matching Request

The screenshot shows the KCC website interface. The top navigation bar includes the KCC logo, 'AUTOFINISH | KCC Paint', and links for 'KCC REFINISH', 'Color Information', 'Color Mixing System', 'Product Guide', 'Information', and 'Customer Service'. A notification bell icon is highlighted with a red box. Below the navigation bar is a search bar for color codes or car models. The main banner features the text 'AUTO REFINISH'. The second part of the screenshot shows the 'ON-LINE ColorMatching Request' page. It includes a search bar for request history and a 'Color Matching Request' button. A table lists the request history with columns for Number, Request Details, Request Date, Answer Date, and Answer Status.

Number	Request Details	Request Date	Answer Date	Answer Status
7	Color matching, please	2024-11-27	2024-11-27	Completed
6	교육용	2024-11-18	2024-11-18	Completed
5	11.15일까지 요청합니다.	2024-11-07	2024-11-07	Completed
4	온라인 조색 요청드립니다~	2024-11-06	2024-11-06	Request accepted
3	11.11일까지 요청합니다	2024-11-04	2024-11-04	Completed
2	테스트용입니다.	2023-09-...	2023-09-...	Completed
1	테스트용입니다.	2023-09-18	2023-09-18	Completed

1. When the requested color matching is complete, a notification will appear on the (bell icon) at the top of the homepage.
2. Click the (bell icon) to view the list of completed color matching requests.
3. Select the relevant request from the list.



## ⑩ Online Color Matching Request (COLOR-NAVI PLUS Only)

### Confirm Completion of Color Matching Request

The screenshot shows a web interface for KCC's online color matching request. The top part displays a list of attachments, including 'S\_WD014.dat'. Below this, a green box highlights a URL: [https://kccrefinish.co.kr/user/color/colorSearch\\_view/1TMTGbYfMj#BAROMATCH](https://kccrefinish.co.kr/user/color/colorSearch_view/1TMTGbYfMj#BAROMATCH). An arrow points from this link to a detailed view of the color formula for 'INTERSTELLAR GRAY'.

The detailed view shows the following information:

- Color Information Search:** Search For Formula
- Color Information:** INTERSTELLAR GRAY, Color Code: AGT, Hit: 19
- Basic Information:**

System	BAROMATCH
Formula registration Date	2022.11.10
KCC Code	MB0111.A7
Supplementary Code	263000
Paint Type	-
Index Code	-
- Color Information:**

Color Code	AGT
Formula	7(STD)
Color Name	INTERSTELLAR GRAY
Color Group	GRAY
Origin	-
Two-tone Code	-

1. From the list, click on the requested item and check the **Color Code-Formula Number** at the bottom of the response, then click the address link.
2. After clicking the link, you will be redirected to the corresponding color formula. Verify that the **Color Code** and **Formula Number** match before using it.