

# Digital Color Process Instruction Guide

**AkzoNobel**

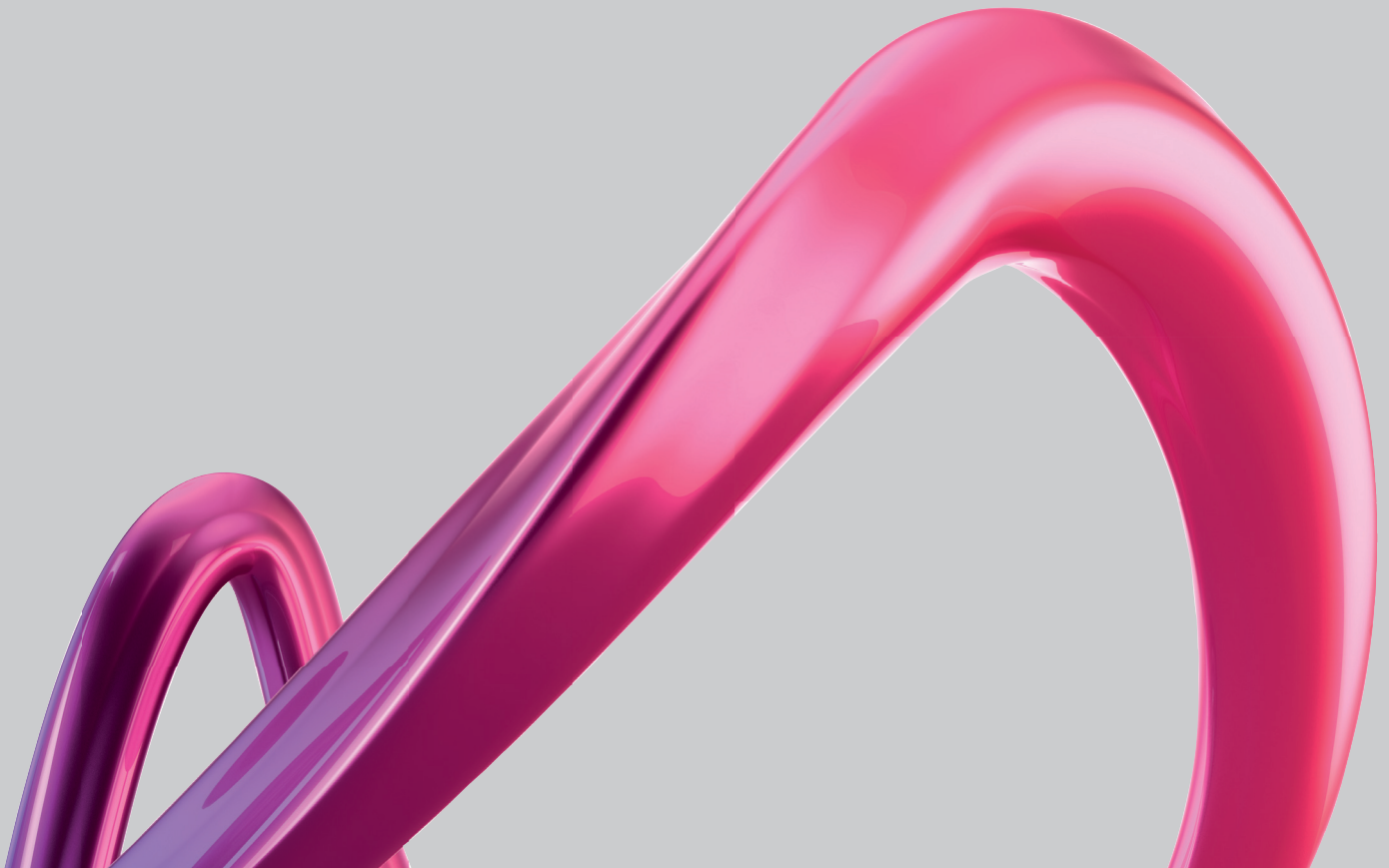


# Driving the digital advantage

AkzoNobel's digital color matching tool, the Automatchic™, puts the power of digital innovation into your hands. Traditional color matching techniques take time and experience to achieve the right result. The compact, hand-held Automatchic spectrophotometer uses the latest digital technology for precise, reliable color measurements. It is easy to use and requires minimal training. To streamline processes, the latest version of Automatchic is wifi enabled.

The Automatchic will not only help increase your business profitability through process optimization, accuracy and speed, it also boosts sustainability

by using less paint, reducing waste and saving valuable time. Customers can find the right color up to three times faster when color matching digitally with the Automatchic compared to traditional methods. In some cases, users report an average reduction in paint use of up to 20% after adopting Colorvation's digital color tooling. When combined with AkzoNobel's color retrieval software, you have access to more than two million colors and variants.



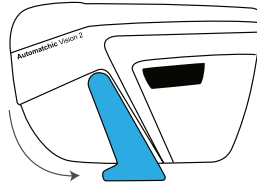
# Spectrophotometer Handling

## 1. Store device in case



Store device in box during the day to reduce risk of damage.

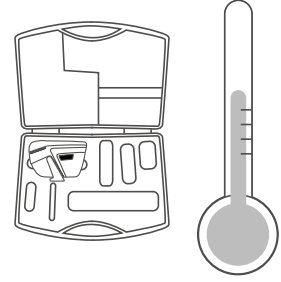
## 2. Protection



Cover the bottom to protect:

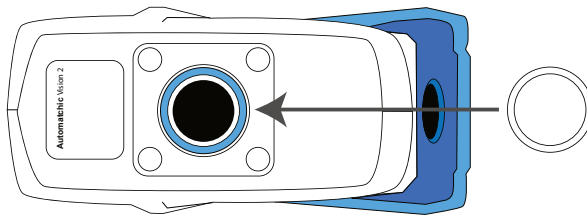
1. Barrier rings
2. Pins
3. Temperature sensor
4. Internal lens

## 3. Calibration tools



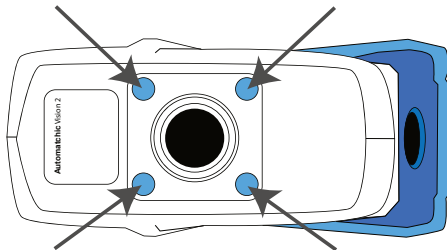
Store Automatchic and tiles in the case in a clean area with ambient temperature around 20°C (70°F).

## 4. Barrier ring check



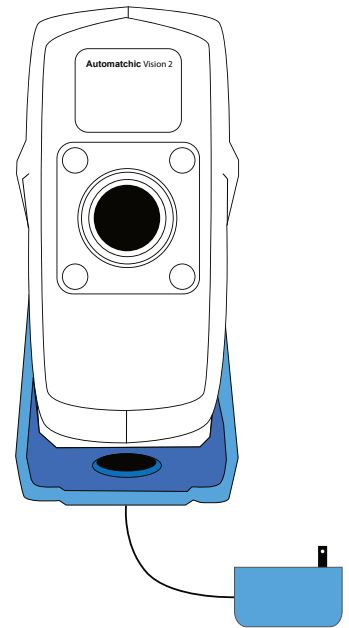
Check barrier ring for any flaws. Use the supplied rings if in need of replacement.

## 5. Pin and temperature sensor(s)



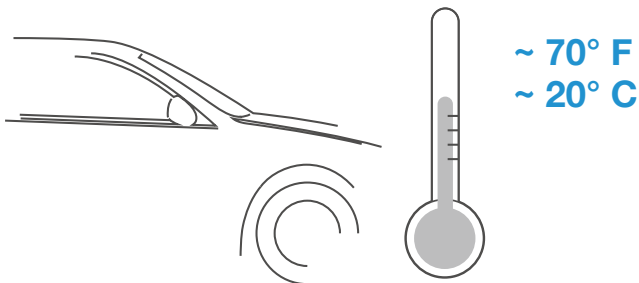
Check pins of the device regularly to ensure that they move freely. Clean when needed with alcohol cleaning cloth.

## 6. Charge battery



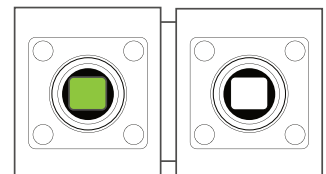
Keep battery charged. When fully charged unplug Automatchic.

## 7. Car temperature



Car too cold: warm up surface.  
Car too hot: cool down surface.

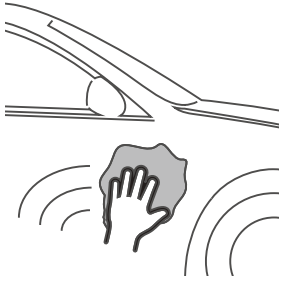
## 8. Calibrate



Follow instructions on the Automatchic display.

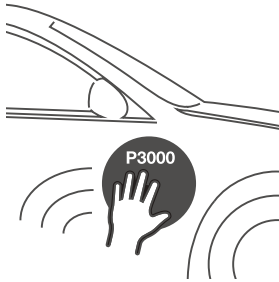
# Before Measurement

## 1. Cleaning



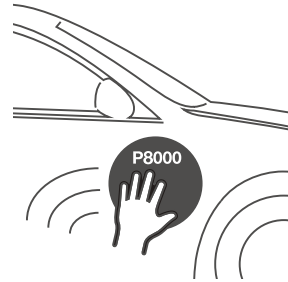
Clean panel with microfiber towel and glass cleaner or compliant product.

## 2. Sand



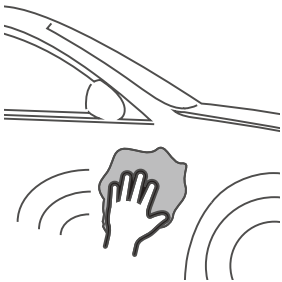
Wet sand panel with **P3000** sandpaper by hand.

## 3. Sand



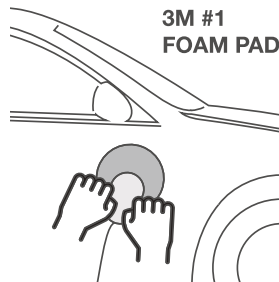
Wet sand panel with **P8000** sandpaper by hand.

## 4. Clean



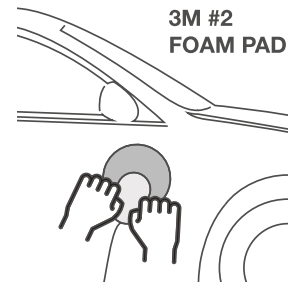
Clean panel with Microfiber towel and glass cleaner or compliant product.

## 5. Polish



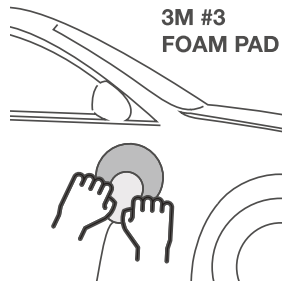
Buff panel with 3M **#1 Compound** and foam pad.

## 6. Polish



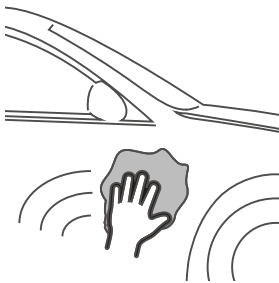
Buff panel with 3M **#2 Polish** and foam pad.

## 7. Polish



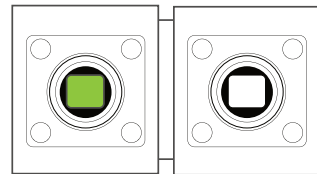
Buff panel with 3M **#3 Ultrafine** and foam pad.

## 8. Clean



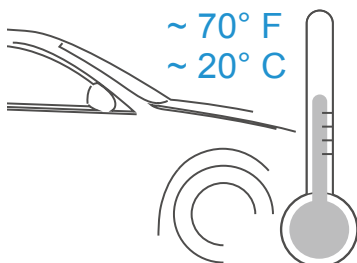
Clean panel with microfiber towel and glass cleaner or compliant product. Inspect surface with sun gun or LED flashlight for swirls or imperfections. Repeat if necessary.

## 9. Calibration tiles



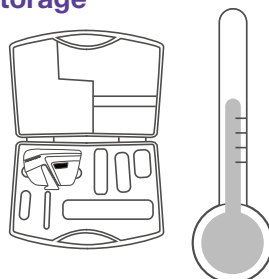
Follow instructions on the Automatchic display.

## 10. Car temperature



Car too cold: warm up surface.  
Car too hot: cool down surface.

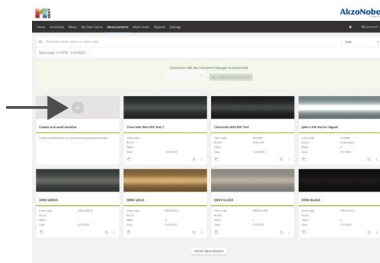
## 11. Storage



Store Automatchic and tiles in the case in a clean area with consistent temperature.

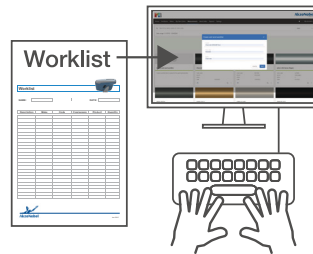
# Color Measurement Process

## 1. Create new measurement



From the Measurements tab, Click + to create and send worklist.

## 2. Add color information



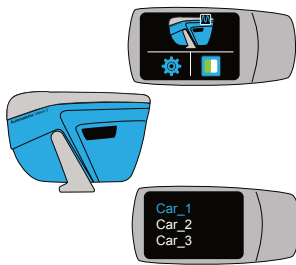
Add sample description/name and confirm color code and brand are correct, click Save.

## 3. Load worklist in Automatchic



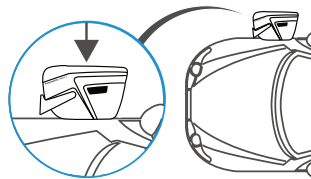
Select Start Synchronization.

## 4. Select vehicle



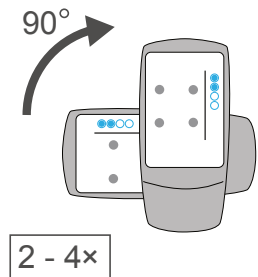
Click Automatchic icon, then click on your sample description.

## 5. Measure vehicle



Follow instructions on Automatchic.

## 6. Measure vehicle



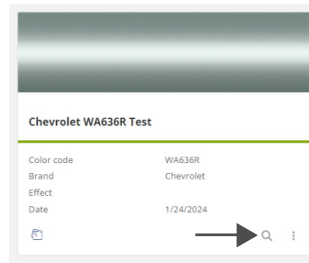
Rotate instrument 90° with each reading.

## 7. Upload measurements



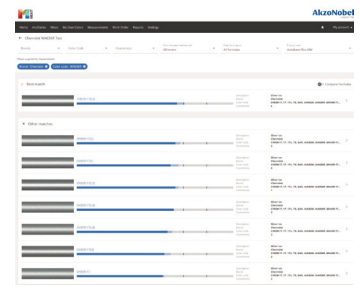
Select Start Synchronization.

## 8. Search formula



Click the Magnifying Glass icon to search and find the best formula.

## 9. Formula selection



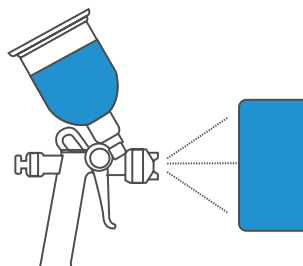
Use bars to evaluate match and double click formula to start mixing.

## 10. Mix formula



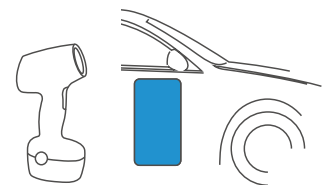
Respect minimum mix quantity. Mix accurately.

## 11. Create spray out



According to TDS application. Apply and dry clearcoat.

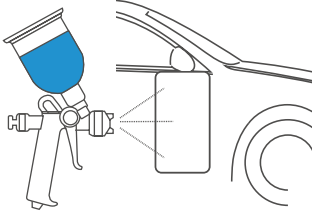
## 12. Verify color match



Check color in daylight conditions. Use an appropriate lighting tool, if necessary.

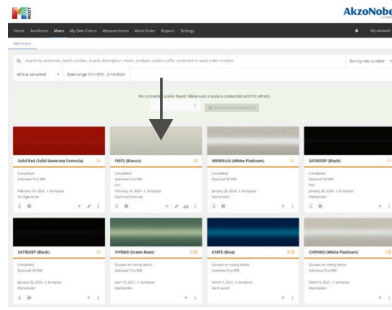
# Building Own Color Bank

## 1. Place spray out on car



After color is deemed OK, you may save the mix to your own bank  
**My Own Colors.**

## 2. Select mix



From **Mixes** tab, select color you wish to save to **My Own Colors.**

## 3. Select, create own variant



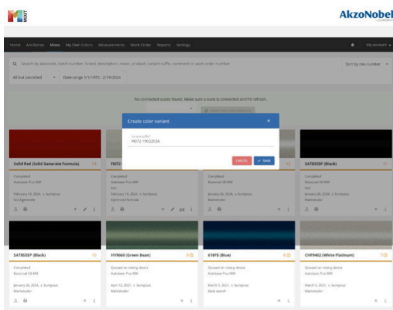
Completed  
Autobase Plus MM  
test  
February 14, 2024, s bumpout  
Optimized formula



Click the **Create own variant** icon.

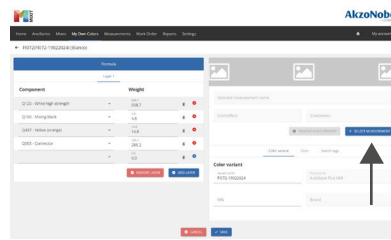


## 4. Name variant



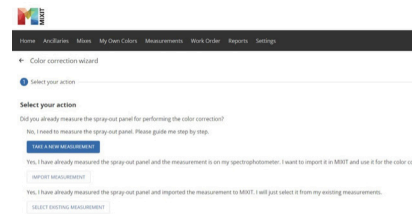
Provide a name/suffix for the new variant, click **Save.**

## 5. New variant formula created



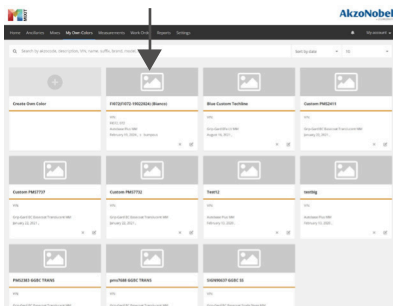
New variant formula appears, click **Save** if satisfied with color measurement. If not, click **+ Select Measurement** to add a final measurement for the color.

## 6. Adding a new measurement



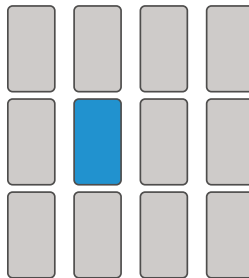
To add a new measurement, follow the **Color correction wizard** steps to complete.

## 7. Added to My Own Colors tab



Upon completion, color is saved to **My Own Colors** tab for future use.

## 8. Store spray out

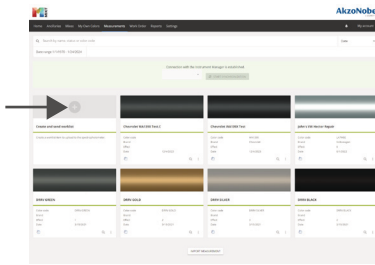


Print formula on panel backside.

# Solid Generate Process\*

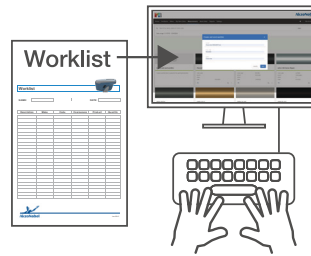
For optimal color results when no candidate search options are available.

## 1. Create new measurement



From the Measurements tab, Click + to create and send worklist.

## 2. Add color information



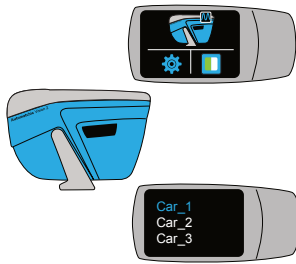
Add sample description and confirm car make and code are correct. Leave coarseness as Solid and click OK.

## 3. Load worklist in Automatchic



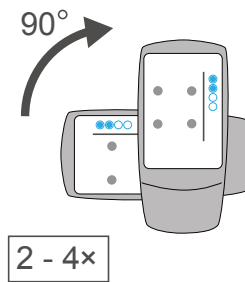
Select Start Synchronization.

## 4. Select vehicle



Click Automatchic icon, then click on your sample description.

## 5. Measure vehicle



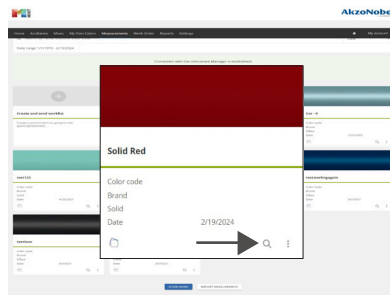
Rotate instrument 90° with each reading.

## 6. Upload measurements



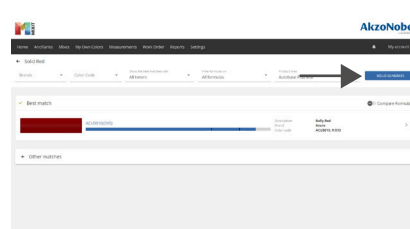
Select Start Synchronization.

## 7. Search formula



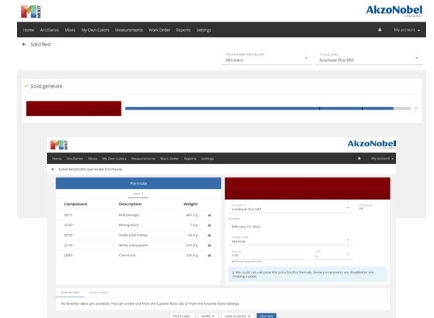
Select color in Measurements and click Magnifying glass to search and find best formula.

## 8. Solid generate



Use bar to evaluate match and double click to start mixing when satisfied or if match indicator bar is not acceptable, click Solid Generate to create a new formula.

## 9. Formula selection



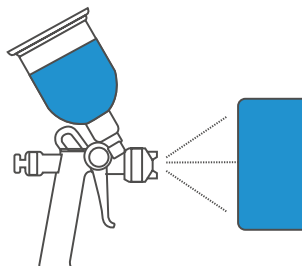
Use bar to evaluate match and double click on color to view formula and start mixing.

## 10. Mix formula



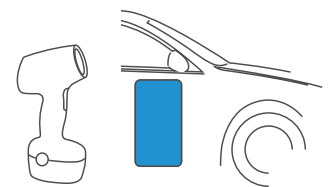
Respect minimum mix quantity. Mix accurately.

## 11. Create spray out



According to TDS application, apply and dry clearcoat.

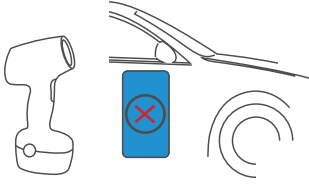
## 12. Verify color match



Check color in daylight conditions. Use an appropriate lighting tool if necessary.

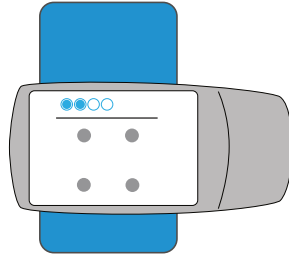
# Color Correction Measurements

## 1. Color check



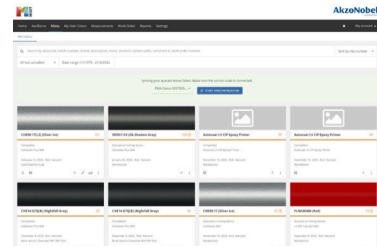
Color match not close enough?

## 2. Measure your spray out

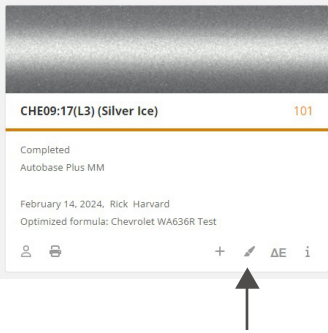


Measure Sprayout  
Rotate instrument 90° each reading for best measurement.

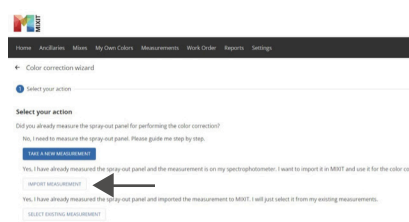
## 3. Identify formula under Mixes



## 4. Select the correction icon

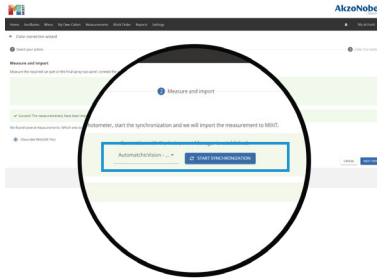


## 5. Import the measurement



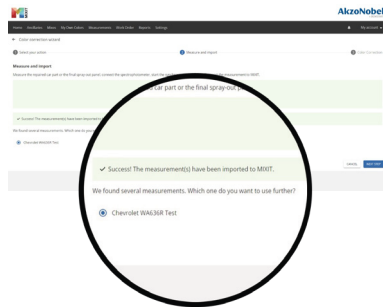
Select Import Measurement.

## 6. Synchronize



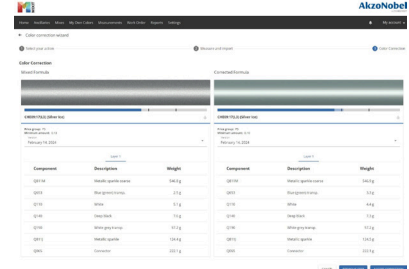
Select Start Synchronization.

## 7. Successful import



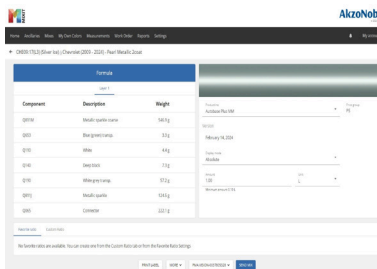
After successful import select Next Step.

## 8. Review formula corrections



Verify improved Formula and select Accept.

## 9. New corrected formula

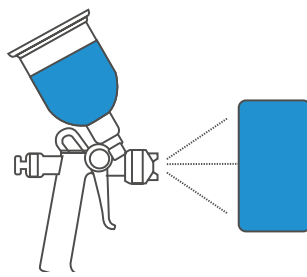


## 10. Mix color



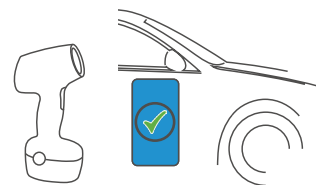
Respect minimum mix quantity.  
Mix accurately.

## 11. Create spray out



According to TDS apply required clearcoat.

## 12. Check color



Color match!



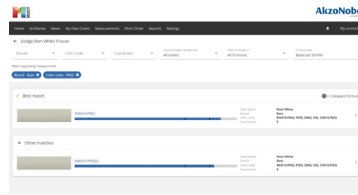
# 3 Stage White Color

## 1. Color measurement process



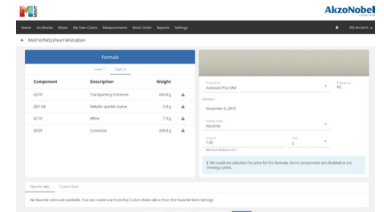
Follow the Color Search Measurement Process Poster to get your initial results.

## 2. Evaluate bar gridline/ color match



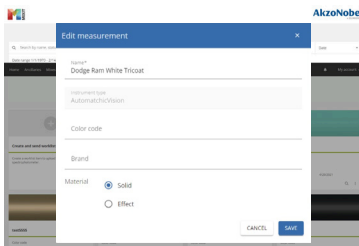
Evaluate; if results are satisfactory create sprayout letdown panel, evaluate color. If satisfactory paint the vehicle. If not satisfactory proceed to step 3.

## 3. Mid-layer selection



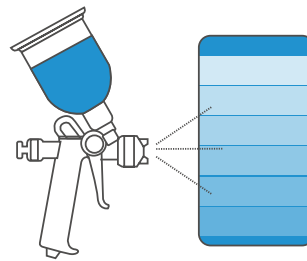
Remember which mid-layer was found/ used in initial search, this will be the mid-layer used in the whole process.

## 4. Edit color sample



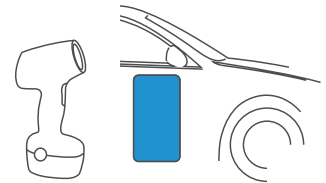
Edit the color sample; change the effect to solid and remove the make and color code. Search as a solid.

## 5. Make letdown panel



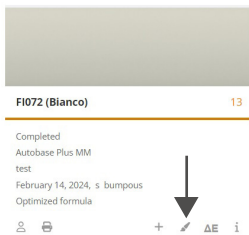
Mix up new solid ground coat and create a letdown panel using the same mid-layer from initial result.

## 6. Evaluate sprayout



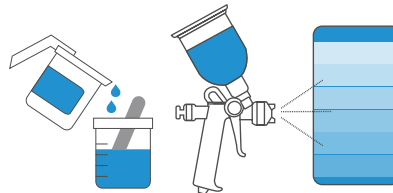
Evaluate sprayout: If sprayout matches, paint the vehicle. If sprayout does not match, proceed to step 7.

## 7. Solid layer correction



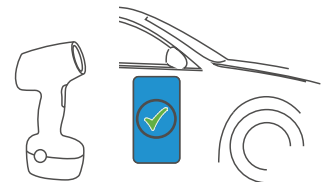
Perform a solid layer correction on the sprayout letdown that has the best match to the vehicle. This will be a correction on the solid base layer only.

## 8. Mix and make letdown panel



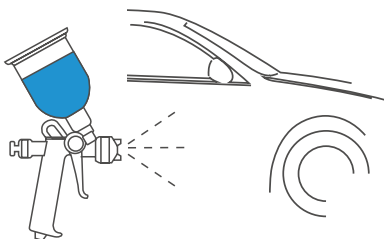
Mix up the corrected base layer and create sprayout letdown panel using the same mid-layer.

## 9. Check color



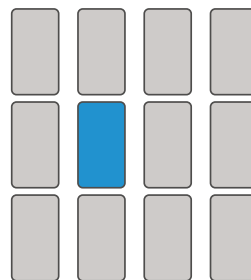
Color match!

## 10. Paint vehicle



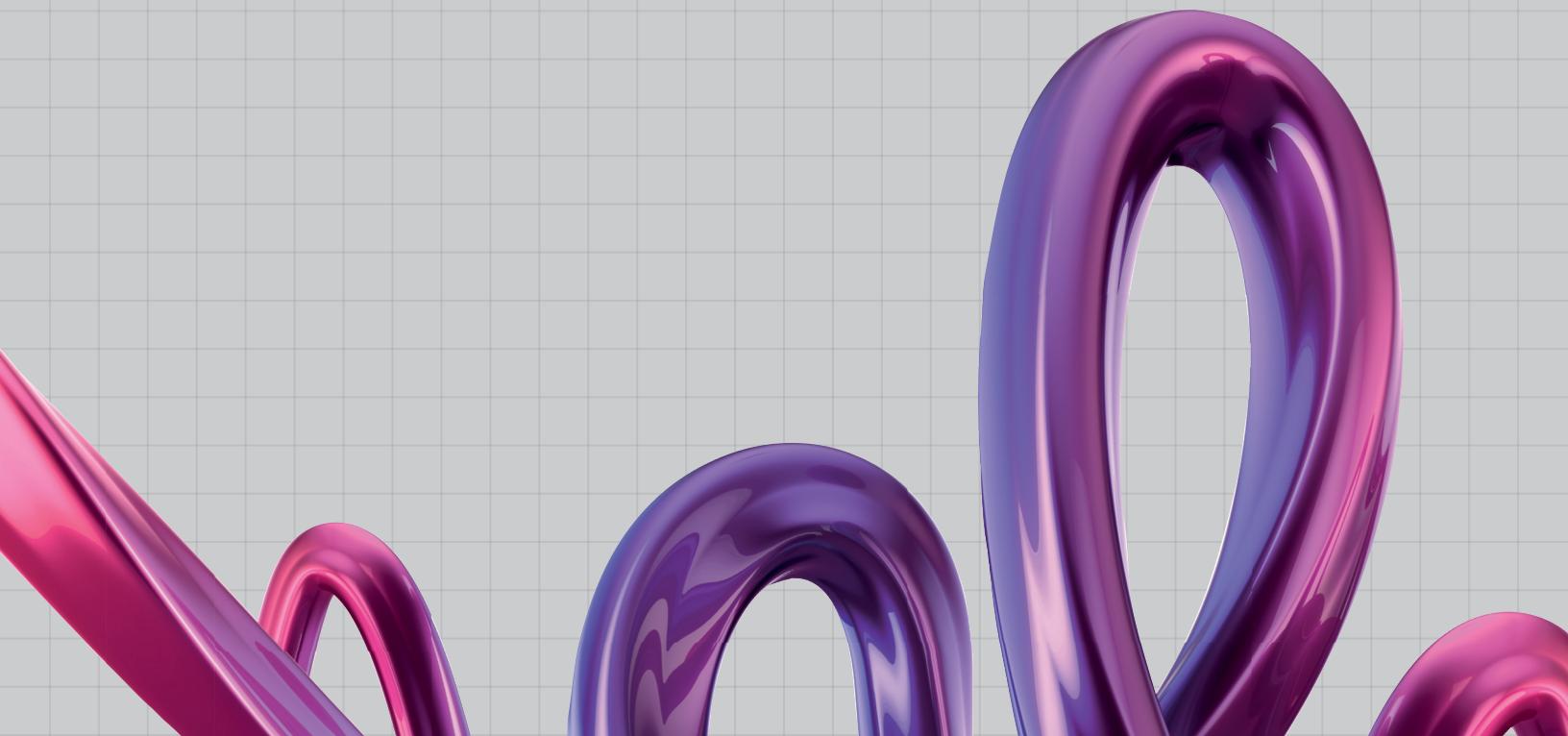
Paint vehicle.

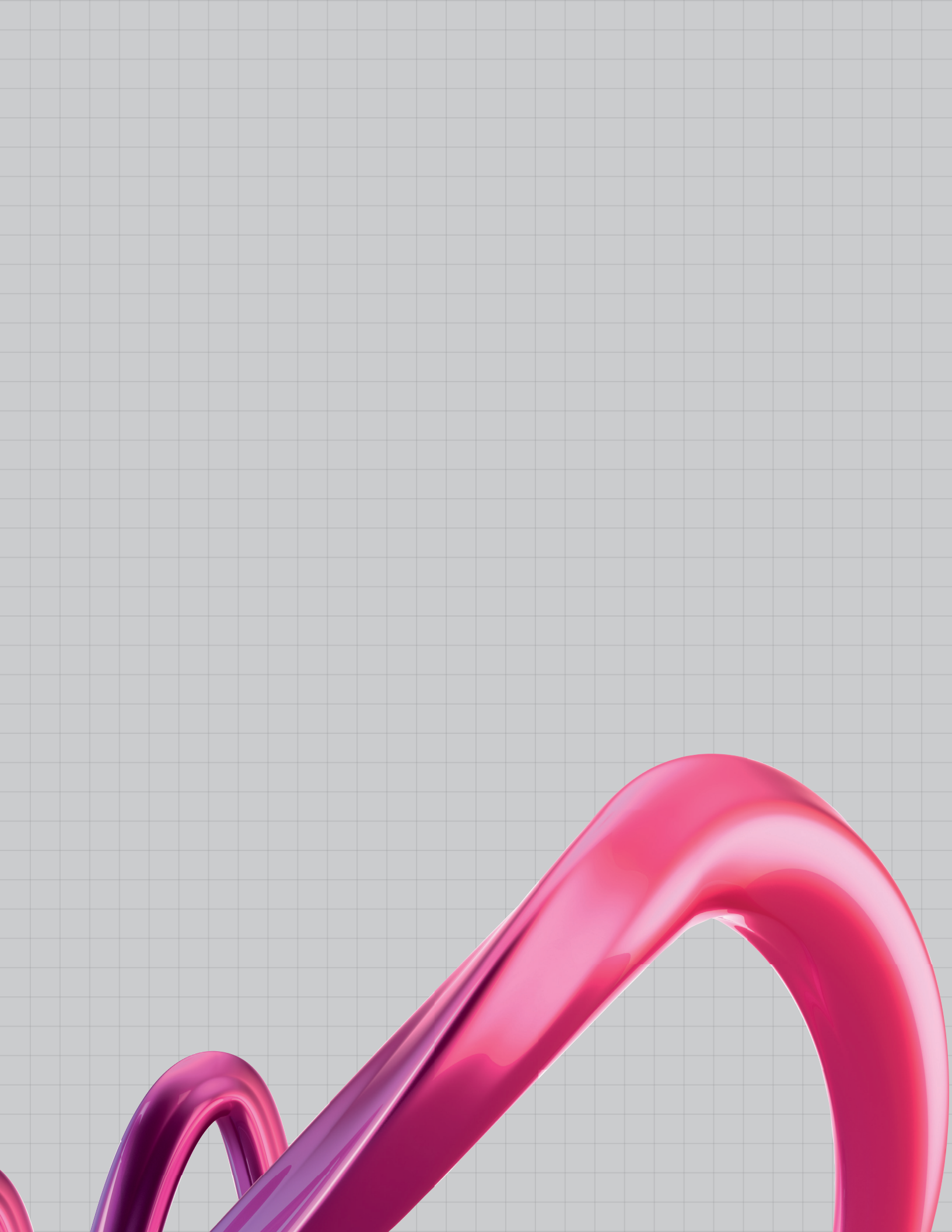
## 11. Save sprayout



Save sprayout letdown for future use.

# Notes





# The future of digital color matching

**AkzoNobel**

[www.akzonobel.com](http://www.akzonobel.com)

AkzoNobel creates everyday essentials to make people's lives more liveable and inspiring. As a leading global paints and coatings company, we supply essential ingredients, essential protection and essential color to industries and consumers worldwide. Backed by a pioneering heritage, our innovative products and sustainable technologies are designed to meet the growing demands of our fast-changing planet, while making life easier. Headquartered in Amsterdam, the Netherlands, we are present around the globe, while our portfolio includes well-known brands such as Dulux, Sikkens, International and Interpon. Consistently ranked as a leader in sustainability, we are dedicated to energizing cities and communities while creating a protected, colorful world where life is improved by what we do.

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AKZ-9000-7077 (03/24)



For more information, visit [www.Colorvation.com](http://www.Colorvation.com) or scan the QR code.



**COLORVATION**