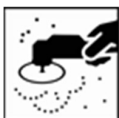


**VALOREM SB VC080 MIDCOAT COLORS**

Valorem SB VC080 Midcoat Color Enhancer is a hardened color coat specially designed to repair popular translucent colors. When used with special Valorem semi-translucent toners, it allows painters to mix colors that match modern, highly chromatic vehicle color palettes.

**SAFETY CONSIDERATIONS**

- Use suitable personal protection.
- When exposed to paint or solvents AkzoNobel recommends the use of a fresh air supply respirator.

**SUITABLE SURFACES**

- Valorem SB – After a 15-20 minute flash dry
- Existing Finishes – Sanded with P1000 or a grey scuff pad

**MIXING****Mix**

- |          |  |
|----------|--|
| <b>3</b> | Parts color formula containing Valorem SB VC080 Midcoat Color Enhancer |
| <b>1</b> | Part VMH-200 Midcoat Hardener  |
| <b>1</b> | Part VMA-100 Midcoat Activator   |

BY VOLUME

- ✓ 2-hour pot life at 70°F (21°C) when mixed

**EQUIPMENT****Spray-Gun Set-Up:**

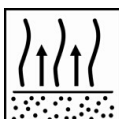
- 1.2 – 1.4 mm HVLP Gravity
- 1.2 – 1.4 mm Compliant Gravity

**Application Air Pressure:**

- HVLP – 10 psi (<0.7 bar) at cap maximum
- Consult manufacturer specifications.

**APPLICATION**

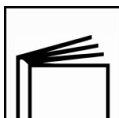
- Apply 2 – 4 single wet coats.

**FLASH OFF at 70°F (21°C)****Flash Between Coats at 70°F (21°C)**

- 3-5 minutes between coats.

**Flash Drying Before Clearcoat**

- 20 – 30 minutes at 70°F (21°C)
- 5 – 10 minutes at 140°F (60°C)
  - ✓ Allow surface cool to ambient temperature before clearcoating.

**RECOAT INFORMATION**

- Valorem has a selection of clearcoats for application over Valorem SB.
  - ✓ The selection is based on many considerations including environment, size of the repair, or time.

Read the complete TDS and the product Safety Data Sheet (SDS) for detailed product information

**VALOREM SB VC080 MIDCOAT COLORS****DESCRIPTION**

Valorem SB VC080 Midcoat Color Enhancer is a hardened color coat specially designed to repair popular translucent colors. When used with special Valorem semi-translucent toners, it allows painters to mix colors that match modern, highly chromatic vehicle color palettes.

**PRODUCT ASSORTMENT**

- Valorem SB VC080 Midcoat Color Enhancer – Item #594444 (Liter)
  - VMH-200 Midcoat Hardener – Item #594514 (Quart)
  - VMA-100 Midcoat Activator – Item #594512 (Quart)
- Stock unopened or used products in approved closed containers with proper labeling. Store in temperatures between 40°F - 95°F (5°C – 35°C). Avoid too much temperature fluctuation. Optimum storage temperature is approximately 70°F (21°C).
  - Shelf-life of all components – 1 year.
    - Refer to the price list for the most up-to-date shelf-life information.

**SUITABLE SURFACES****Substrate**

- Valorem Basecoat
- Existing clearcoat

**Preparation**

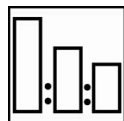
- After a 15-20 minute flash
- Sanded with P1000 or a grey scuff pad

**BASIC RAW MATERIALS**

- Valorem SB VC080 Midcoat Color Enhancer – Hydroxyl acrylic resins
- VMH-200 Midcoat Hardener – Polyisocyanate resins
- VMA-100 Midcoat Activator – Special solvents

**PRODUCT AGITATION****Stirring**

- Translucent colors tend to settle. It is important to agitate before and during use.
- Stir or shake before each use



BY VOLUME

**MIXING****Mix**

**3**  
**1**  
**1**

**By Volume**

Parts color formula containing Valorem SB VC080 Midcoat Color Enhancer  
Part VMH-200 Midcoat Hardener  
Part VMA-100 Midcoat Activator

**VALOREM SB VC080 MIDCOAT COLORS****CUSTOM MIXED COLORS**

- In some instances, it may be desired to make your own color. Be aware that the best translucent effects are produced by using the assortment of Valorem SB VCxxx toners. Solid Valorem SB MM toners may also be used but may not yield the desired result.



BY WEIGHT

**Mix****100****5-10 grams****By Weight**

Parts Valorem SB VC080 Midcoat Color Enhancer

Part Valorem SB VC toner or other solid color SB toner

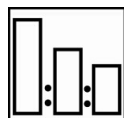
- ✓ Do not exceed 5 grams of SB toner per 100 grams of VC080 in VOC regulated markets.

**Then Mix –****Mix****3****1****1****By Volume**

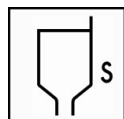
Parts color formula containing Valorem SB VC080 Midcoat Color Enhancer

Part VMH-200 Midcoat Hardener

Part VMA-100 Midcoat Activator



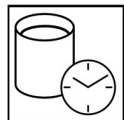
BY VOLUME



DIN #4

**VISCOSITY – READY TO SPRAY AT 70°F (21°C)**

- 10 – 12 Seconds**

**POT-LIFE WHEN MIXED****Product Mix****At 70°F (21°C)**

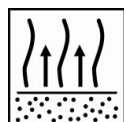
- Mixed color containing Valorem SB VC080 Midcoat Color Enhancer, VMH-200 Midcoat Hardener and VMA-100 Midcoat Activator. – 2 hours

**SPRAY-GUN SET-UP****Equipment**

- 1.2 – 1.4 mm HVLP Gravity
- 1.2 – 1.4 mm Compliant Gravity

**Application Air Pressure:**

- HVLP – 10 psi (<0.7 bar) at cap, maximum.
- Consult manufacturer specifications.

**FLASH DRYING BEFORE MIDCOAT**

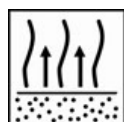
- Allow Valorem SB foundation color to flash for 15-20 minutes at 70°F (21°C) before application of the Valorem SB VC080 midcoat color.
  - Flash time will be dependent on ambient temperature, applied paint wetness/thickness, and available airflow.

**OVERALL APPLICATION**

- Apply 2-4 thin closed coats of Valorem SB VC080 Midcoat Color Enhancer color with a gun distance of 6-8" from the panel until color is equal to original finish.
- Allow a flash off time between coats of 3 to 5 minutes at 70°F (21°C).
  - ✓ Flash time will be dependent on ambient temperature, applied paint wetness/thickness, and available airflow.

**VALOREM SB VC080 MIDCOAT COLORS****APPLICATION NOTES**

- To avoid a cloudy appearance, the application must be consistent and even.
- Altering the overlap areas between coats will help avoid darker areas between panels.
- Some unique colors may require additional coats for the desired appearance.

**FLASH DRYING****Flash Between Coats at 70°F (21°C)**

- 3-5 minutes

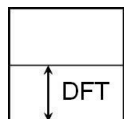
**Flash Before Clearcoating**

- 20 – 30 minutes at 70°F (21°C)
- 5 – 10 minutes at 140°F (60°C)

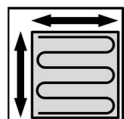
- ✓ Flash time is dependent on temperature and application.
- ✓ If flash drying with forced heat, allow surface to cool to ambient temperature before clearcoating.
- The maximum time allowed before clearcoating is 12 hours.

**RECOATING**

- After observing proper dry time, Valorem SB VC080 Midcoat Color Enhancer colors may be recoated with itself or any Valorem clearcoat.

**FILM THICKNESS**

- 1 Coat will achieve a thickness of 0.2 – 0.3 mils (5.08 – 7.60µm) dry.
- With the recommended application 2-4 coats will achieve 0.4 – 1.2 mils (10.1 – 30.4µm) dry.

**THEORETICAL COVERAGE**

- With the recommended application the theoretical material usage is ±350 feet<sup>2</sup>/gallon (±8.59m<sup>2</sup>/liter) at a 1 mil thickness (25.4µm).
- ✓ Actual coverage is dependent on many factors. These may include: the shape of the object, surface smoothness, application technique, among other application variables.

**VOC / REGULATORY INFORMATION**

- Notice: Do not handle until the Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an air-supplied respirator when exposed to vapors or spray mist.

**Ready to spray VOC:****Product Mix**

|   | <b>lb/gal</b> | <b>gr/L</b> |
|---|---------------|-------------|
| Valorem VC080 Midcoat Color Enhancer colors (5% toner)  | ≤3.5          | ≤420        |
| Valorem VC080 Midcoat Color Enhancer colors (10% toner) | ≤3.7          | ≤444        |

# VALOREM

## VALOREM SB VC080 MIDCOAT COLORS

TECHNICAL DATA SHEET (TDS)  
BASECOATS  
NORTH AMERICA  
Page 5 of 5

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**AkzoNobel Inc., North America**  
**Address: 1845 Maxwell Street – Troy, MI USA**  
**Tel: 800.618.1010**

### FOR PROFESSIONAL USE WITH SUITABLE HSE EQUIPMENT

**IMPORTANT NOTE** The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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#### Head Office

AkzoNobel Car Refinishes B.V., PO Box 3, 2170 BA Sassenheim, The Netherlands