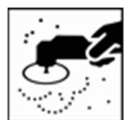


VC-223LV 2:1 Clear

Valorem VC-223LV Clear is a VOC compliant acrylic urethane clearcoat for use over Valorem Basecoat. VC-223LV offers excellent results in a wide variety of conditions with excellent gloss and easy detailing - making it an ideal choice for air dry or low-bake environments at a 2.1 lb/gal VOC.

**SAFETY CONSIDERATIONS**

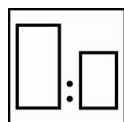
- Use suitable personal protection.
- When exposed to paint or solvents, AkzoNobel recommends the use of a fresh air supply respirator.

**SURFACE PREPARATION**

- Refinish Basecoat
 - Wait until the basecoat TDS indicated flash time before clearcoat application
- Existing Clearcoat
 - Thoroughly abraded with P1000 dry or a gray scuff pad

**SURFACE CLEANING**

- Use suitable surface cleaners and technique to ensure a clean surface

**MIXING
Mix**

- | | |
|---|--------------------------------|
| 2 | Parts Valorem VC-223LV Clear |
| 1 | Part Valorem VH-221LV Hardener |

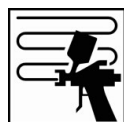
BY VOLUME

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

- 1.3 – 1.4 mm HVLP Gravity
- 1.3 – 1.4 mm Compliant

Application Air Pressure

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

**APPLICATION**

- 2 single wet coats
 - Flash 5-10 minutes between coats and 5-10 minutes before force dry

**DRYING**

- | | At 70°F (21°C) | At 120°F (49°C) (Ambient) |
|----------------------------|-----------------------|----------------------------------|
| • VC-223LV – Dust Free | • 15 – 20 minutes | – 5 – 10 minutes |
| • VC-223LV – Dry to Handle | • 1.5 – 2 hours | – 30 – 40 minutes |

**RECOATABILITY**

- May be recoated with itself at any stage for up to 24 hours without sanding.
 - After 24 hours, the surface must be abraded before recoating

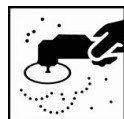
Read the complete TDS and the product Safety Data Sheet (SDS) for detailed product information

VC-223LV 2:1 Clear**DESCRIPTION**

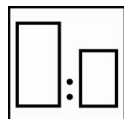
Valorem VC-223LV Clear is a VOC compliant acrylic urethane clearcoat for use over Valorem Basecoat. VC-223LV offers excellent results in a wide variety of conditions with excellent gloss and easy detailing - making it an ideal choice for air dry or low-bake environments at a 2.1 lb/gal VOC.

**PRODUCT ASSORTMENT**

- Valorem VC-223LV Clear – Item #601306 (Gallon)
 - Valorem VH-221LV Hardener – Item #596192 (Gallon)
- Stock unopened or used products in approved closed containers with proper labeling. Store in moderate temperatures between 40°F - 95°F (5°C – 35°C). Avoid too much temperature fluctuation. Optimum storage temperature is approximately 70°F (21°C).
 - Refer to the Product Shelf-Life Overview TDS or the current price list for the most up-to-date shelf-life information.

**SURFACE PREPARATION**

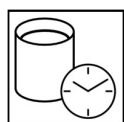
- Refinish Basecoat – Wait until the basecoat TDS indicated flash time before clearcoat application.
- Existing Clearcoat – Thoroughly abraded with P1000 dry or a gray scuff pad.
– Use suitable surface cleaners and technique to ensure a clean surface.



BY VOLUME

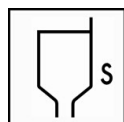
MIXING

- | | |
|------------|--|
| Mix | By Volume |
| 2 | Parts VC-223LV Clear |
| 1 | Part VH-221LV Hardener |
| | ✓ VC-223LV Clear does not require flex additive for flexible parts |

**POT-LIFE WHEN MIXED****Product Mix**

- Valorem VC-223LV Clear
✓ A shorter pot-life can be expected in higher temperatures

At 70°F (21°C)
1.5 hours

**VISCOSITY – READY TO SPRAY**

14-16 Seconds • Measured with a DIN #4 viscosity cup at 70°F (21°C).

**SPRAY-GUN SET-UP****Spray-Gun Set-Up**

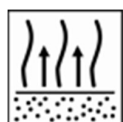
- 1.3 – 1.5 mm HVLP Gravity
- 1.3 – 1.5 mm Compliant

Application Air Pressure

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

VC-223LV 2:1 Clear**APPLICATION**

- Apply 2 single wet coats
 - Flash dry between coats
 - If heavy sanding and polishing is required, a third coat may be applied after observing the indicated flash time.

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

- 5 – 10 minutes

Flash at 70°F (21°C) Before Force Drying

- 5 – 10 minutes

✓ Flash time is dependent on temperature and application

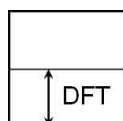
**DRYING / CURING TIME****Ambient Temperature****At 70°F (21°C)****At 120°F (49°C)**

- | | | |
|----------------------------|--------------------|--------------------|
| • VC-223LV – Dust Free | – 15 to 20 minutes | – 5 to 10 minutes |
| • VC-223LV – Dry to Handle | – 1.5 to 2 hours | – 30 to 40 minutes |

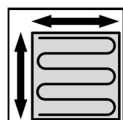
- When baked, allow repair to cool down for approximately 1 hour before polishing

**RECOATING**

- After a full drying cycle, may be recoated with itself for up to 24 hours without sanding.
 - After 24 hours, the surface must be abraded before recoating.

**FILM THICKNESS – USING SUITABLE APPLICATION**

- 1 coat will achieve a thickness of 1.2-1.5 mils (30-38 µm)
- The minimum clearcoat film thickness to provide suitable protection and appearance over basecoat is 2.4 mils (61µm)

**THEORETICAL COVERAGE**

- With the recommended application the theoretical coverage is ≈675 ft²/gallon (≈16.5 m²/liter) at a 1 mil thickness (25.4 µm).
- Actual coverage is dependent on many factors which may include the shape of the object, surface smoothness, application technique, and 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.

- The VOC content of VC-223LV ready to use is ≤2.1 lb/gal (≤250 g/L)

VALOREM

VC-223LV 2:1 Clear

**TECHNICAL DATA SHEET (TDS)
CLEARCOATS
NORTH AMERICA
Page 4 of 4**

**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 advice 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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