



Heavy Duty Protective Coatings

MC-Series  
V-Cote 131

Waterborne Acrylic Epoxy



## Technical Data

### PRODUCT DESCRIPTION

MC Series Waterborne Acrylic Epoxy is a low odor, two component product formulated as a high performance finish coating. Ideally suited for interior and exterior industrial maintenance and architectural applications. VOC compliant.

### INTENDED USES

Suitable for interior and exterior walls, equipment, structural and miscellaneous steel, in schools, hospitals, institutions, laboratories, food, beverage and manufacturing facilities. NOT INTENDED FOR FLOORS. NOT INTENDED FOR IMMERSION SERVICE.

### PHYSICAL PROPERTIES

<b>Bases (Part A)</b>	White Base MC-1221, Midtone Base MC-1222, Deep Base MC-1223, Neutral Base MC-0224	
<b>Cures (Part B)</b>	MF-0220 Gloss, MF-0225 Semi-Gloss	
<b>Resin Type</b>	Acrylic Latex Epoxy	
<b>Clean-up Solvents</b>	Water	
<b>Mixing Ratio (by volume)</b>	4 parts resin to 1 part cure.	
<b>Thinning</b>	DO NOT THIN	
	<b>MF-0220</b>	<b>MF-0225</b>
<b>Finish/Sheen</b>	70+ @ 60°	25 - 30 @ 60°
<b>Solids By Weight</b>	46%	53%
<b>Solids by Volume</b>	35%	38%
<b>Theoretical Coverage**</b>	561 ft <sup>2</sup> /gal @ 1 mil	609 ft <sup>2</sup> /gal @ 1 mil
<b>Dry Film Thickness / Coat</b>	2-2.5 mils (50-62.5 microns)	2-2.5 mils (50-62.5 microns)
<b>Wet Film to Achieve DFT</b>	6-7 mils (150-175 microns)	5.5-6.5 mils (137-162 mic.)
<b>Coverage at DFT**</b>	224-280 ft <sup>2</sup> /gal	243-304 ft <sup>2</sup> /gal
<b>VOC's (White Base MC-1221)</b>	1.12 - 1.24 lbs./gal.(134 - 149gm/liter) 1.12 - 1.24./gal.(134 - 149 gm/liter)	
<b>Induction Time</b>	30 minutes	30 minutes
<b>Pot Life</b>	24 hours	24 hours
<b>Drying Time*</b> [At 70°F (21°C)] [ASTM D 1640]		
Set to Touch	30 minutes	30minutes
Dry Through/ Re-coat	4 hours	4 hours

\* Dry times vary with surface temperature, air movement, humidity and film thickness.

\*\* Coverage rates are estimates based on the products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.

### RECOMMENDED PRIMERS, FILLERS and SEALERS

<b>Ferrous Metal</b>	Cote-All Universal Primer (AZ-Series) Mult-E-Poxy 180 V-Tech 500 Hi-Build Epoxy Primer V-Cote 200 Acrylic Maintenance Primer (MC-Series)
<b>Galvanized &amp; Aluminum Metal</b>	V-Cote 200 Acrylic Maintenance Primer (MC-Series)
<b>Interior Wood</b>	DU-1508 Latex Enamel Undercoat CU-1401 Alkyd Enamel Undercoat
<b>Exterior Wood</b>	BU-1501 Sure Grip Primer
<b>Drywall</b>	DU-1514 P.V.A. Primer/Sealer
<b>Plaster</b>	CU-1401 Alkyd Primer/Sealer DU-1502 Latex Primer/Sealer
<b>Interior Concrete Block</b> (wet environment)	BF-1501 Permafil Block Filler V-Coat 100 Acrylic Epoxy Block Filler (MC-Series)
<b>Interior Concrete Block</b> (dry environment)	V-Cote 131 (self-priming) BF-1504 Fil-Kote Block Filler
<b>Exterior Concrete Block</b>	V-Cote 131 (self-priming) BF-1501 Permafil Block Filler
<b>Poured Concrete</b>	V-Cote 131 (self-priming) BU-1501 Sure Grip Primer

## SURFACE PREPARATION

All surfaces must be clean, sound, dry and free of all dirt, dust, wax, oil, grease, chalk and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared and primed prior to application of this product. See "Recommended Primers, Fillers and Sealers" for appropriate primer to use depending on the substrate.

### Masonry Surfaces:

Poured concrete  
Concrete block

New concrete must cure for a *minimum* of 30 days at 72° F (22° C) prior to coating application. Level all surface projections and mortar spatters by stoning. Rake mortar joints clean and remove all soluble salts. V-Cote 131 is self-priming on masonry surfaces, however, see "Recommended Primers, Fillers and Sealers" for primer recommendations for interior and exterior masonry surfaces in dry and wet areas.

### Ferrous Metal Surfaces:

Abrasive blast new steel to SSPC-SP-6. Use proper abrasive to achieve an average of 1.5 to 2 mil profile. Blasted surfaces should be primed before flash rusting occurs. If blasting is not practical, remove loose rust and mill scale with hand or power abrading tools as per SSPC-SP-2 and SSPC-SP-3.

### New Galvanized & Aluminum Surfaces:

Remove surface contamination or passivators by scrubbing with a cleaning & etching solution or blast per SSPC-SP-7 brush-off blast.

### Weathered Galvanized & Aluminum Surfaces:

Power or hand wash with detergent and rinse thoroughly. The surface must be dull and have a profile. Use a cleaning & etching solution if needed or blast per SSPC-SP-7 brush-off blast.

### Wood Surfaces:

Sand smooth any exposed wood surfaces. Patch nail holes and any imperfections with wood filler or putty and sand smooth. Remove sanding dust.

### Plaster Surfaces:

New plaster must cure for a *minimum* of 30 days at 72° F (22° C) prior to coating application. Sand, fill cracks with spackling compound, allow to dry and sand smooth. Remove dust.

### Drywall Surfaces:

Fill nail holes and imperfections with spackling compound and allow to dry. Sand tape joints and spackled areas and remove dust.

### Previously Painted Metal Surfaces:

Power or hand washing is recommended to remove contamination. If oil or grease is present, use of a cleaner/degreaser is required. All cleaning residue must be completely rinsed from the surface. Allow to dry. Remove all loose coatings, rust and corrosion by scraping, sanding or other abrading method as per SSPC-SP-2 and SSPC-SP-3, or abrasive blast as per SSPC-SP-6 commercial blast. Use sandpaper to dull slick, glossy and/or non-porous surfaces with sandpaper.

### Mildew:

Remove by using a solution of one part household bleach and three parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes and then rinse completely and allow to dry before coating application.

## APPLICATION

Part A (resin) and part B (cure) are packaged in pre-measured kits. The mixing ratio is 4 parts A to 1 part B. Stir both components prior to intermixing. Thoroughly mix Part B into Part A using an explosion-proof power drill and Jiffler mixer to disperse pigments. Wait 30 minutes before application. The material must be applied within the estimated pot life. For optimum application, air and surface temperature should be from 50° to 90°F (10° to 32°C) and at least 5° F (3° C) above the dew point. Above 122°F (50°C), sagging may occur. A minimum surface temperature of 50°F (10°C) for eight (8) hours after application is recommended to achieve proper film formation.

### Brush or Roller:

Apply product in full even coats. Maintain a wet edge. To insure adequate film build, two coats are recommended when applying by brush or roller (See the drying times chart for recoat period). Allow the product to dry between coats. A good quality synthetic brush will make application easier. Select a roller cover suited for the texture of the surface to be coated.

### Airless Spray:

Flush airless lines with water. Equipment must be clean prior to start. Apply a wet coat in even, parallel passes with 50% overlap to avoid bare areas and pinholes.

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015" to 0.017"	2500 - 3000 PSI	1/4" or 3/8"	60 mesh

## SAFETY PRECAUTIONS

Paint Products contain chemical ingredients, which are considered hazardous. Prior to use, read container label warnings and the current Material Safety Data Sheet for important health and safety information. Insure these instructions are practiced during product application and cure. **Keep out of the reach of children.**

## LIMITED WARRANTY

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement

Diamond Vogel Paint  
1110 Albany Place SE Orange City, IA 51041  
Phone 712.737.8880 Fax 712.737.4998  
marketing@diamondvogel.com www.diamondvogel.com