

Product Description

Vers-E-Poxy 131 is an outstanding, waterborne epoxy formulated to provide superior protection to a variety of interior and exterior substrates. It is highly impact, abrasion, and chemical resistant making it a perfect choice for difficult environments. Vers-E-Poxy 131 has outstanding application properties and is an excellent choice for upgrading conventional coatings to a high-performance protection system when required.

Intended Uses

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|--------------------|----------------------|-----------------------|--------------------------------|
| Apply to: | | Protects: | |
| • Gypsum | • Aluminum | • Shower/locker rooms | • Processing plants |
| • Structural steel | • Masonry surfaces | • Equipment | • Schools |
| • Galvanized metal | • Zinc rich products | • Operating rooms | • Institutions |
| • Composites | | • Laboratories | • Material handling facilities |

The above are general recommendations and not intended to limit the use of Vers-E-Poxy 131. Test areas are always recommended to confirm results.
NOT INTENDED FOR IMMERSION SERVICE.

Physical Properties

Resin Type	2 Component Acrylic Latex Epoxy	
Bases	White Base MC-1221, Mid-tone Base MC-1222, Deep Base MC-1223, Neutral Base MC-0224 Tintable in "ACS"	
Mixing Ratio By Volume	4 parts resin to 1 part cure	
Cure	MF-0225	MF-0220
Finish /Sheen	Semi-Gloss 25–30 @ 60°	Gloss 70+ @ 60°
Solids by Weight	52%	48%
Solids by Volume	40%	37%
Theoretical Coverage*	634 ft ² /gal @ 1 mil	588 ft ² /gal @ 1 mil
Dry Film Thickness / Coat	2.0–3.0 mils (50–75 microns)	2.0–3.0 mils (50–75 microns)
Wet Film to Achieve DFT	5.1–7.6 mils (130–195 microns)	5.5–8.2 mils (130–195 microns)
Coverage at DFT*	212–318 ft ² /gal	196–294 ft ² /gal
VOCs	1–1.11 lbs./gal (120–133 grams/liter)	1.1–1.22 lbs./gal (132–146 grams/liter)
Thinning	DO NOT THIN	
Clean-up Solvents	Water	
Drying Time**	Set to Touch: 30 minutes at 70°F (21°C) and 50% Relative Humidity Recoat: Minimum 4 hours at 70°F (21°C) and 50% Relative Humidity	
ASTM D1640 - 83 Reapproved 1989		
Induction Time	30 minutes	
Pot Life	24 hours at 70°F (21°C) and 50% Relative Humidity	

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

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

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. See "System Selector" 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. Vers-E-Poxy 131 is self-priming on masonry surfaces; however, see "System Selector" for primer recommendations for various interior and exterior surfaces.

Surface Preparation (Continued)

Ferrous Metal Surfaces: Abrasive blast new steel to SSPC-SP-6, Commercial Blast Cleaning. Use proper abrasive to achieve an average of 1.5 to 2.0 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, Hand Tool Cleaning and SSPC-SP 3, Power Tool Cleaning.

New Galvanized & Aluminum Surfaces: Remove surface contamination or passivators by scrubbing with a cleaning and etching solution or blast per SSPC-SP-7, Brush-Off Blast Cleaning.

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 and etching solution if needed or blast per SSPC-SP-7, Brush-Off Blast Cleaning.

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. For bleeding type woods such as cedar or redwood use a stain blocking type primer.

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, Hand Tool Cleaning and SSPC-SP-3, Power Tool Cleaning, or abrasive blast as per SSPC-SP-6, Commercial Blast Cleaning. 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 premeasured 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 blade type 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. Allow the product to dry between coats. Intermix tinted containers to ensure color uniformity of all material. Protect product from freezing prior to and during application.

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

Airless Spray: Flush airless lines with water. Equipment must be clean prior to start. Apply the product in even coats and maintain a wet edge. Use multiple passes to achieve film build. Allow the product to dry between coats.

Tip Orifice	Atomizing Pressure	Material Hose ID	Manifold Filter
0.015" to 0.017"	2800–3000 PSI	1/4" or 3/8"	60 mesh

Packaging

Shipping Weight

Product	1 Gallon Kit	5 Gallon Kit	Product	1 Gallon Kit	5 Gallon Kit
Part A Resin	1 Gallon (short filled)	5 Gallon (short filled)	Vers-E-Poxy 131	12.03 lbs. (5.45 kg)	53 lbs. (24.04 kg)
Part B Cure	1 Quart (short filled)	1 Gallon (full filled)			

Safety Precautions

***WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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

Safety Data

“Safety Data Sheets” are available from your Diamond Vogel representative or the Diamond Vogel website at www.diamondvogel.com. Prior to use of this product, obtain and review the Safety Data Sheet for health and safety information. Read and observe all precautionary notices on container labels.

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 does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel’s liability will under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

Additional Information

Cautions and Warnings information is located on the back panel of each product label.
For current information regarding VOC regulations for specific geographical regions, please contact Technical Service at Diamond Vogel Corporate Headquarters, (Contact information is located at the bottom of the page).