

TECHNICAL DATA

Product Description

A heavy duty two component, epoxy formulated to provide resistance against a wide range of solvents and chemicals under splash and spill conditions on a variety of substrates. V-Tech 240 can be applied to tightly adhered existing coatings. Use for heavy duty service on properly prepared masonry, drywall and structural steel surfaces.

Physical Properties

Resin Type	2 Component Epoxy
Finish/Sheen	Gloss, 90+ @ 60°
Bases	LF-1241 white/White Base, LF-1243 Deep Base, LF-0244 Clear Base Tintable in "ICS".
Cure	LM-0240
Mixing Ratio by volume	4 parts resin to 1 part cure
Solids By Weight	76%
Solids by Volume	57%
Theoretical Coverage**	914 ft ² /gal @ 1 mil
Dry Film Thickness / Coat	2 – 3 mils (50 - 75 microns)
Wet Film to Achieve DFT	3.5– 5.3 mils (125 - 187.5 microns)
Coverage at DFT**	304 – 457 ft ² /gal
VOC's (White)	2.62 - 2.71 lbs/gal (314 - 325 grams/liter)
Thinning	DO NOT THIN
Clean-up Solvents	N-9000 Gun Cleaner or N-4006 MEK
Drying Time* (hours) At 70°F (21°C) _{[ASTM D1640] - 83 Reapproved 1989}	Set to Touch: 20 minutes Recoat: Minimum 4 hours, Maximum 6 months
Induction Time	None
Pot Life	8-10 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.

Qualifications

Suitable for use in USDA inspected facilities

Intended Uses

Apply to:

- Interior or exterior surfaces
- Ferrous Metal
- Galvanized Metal
- Aluminum
- Masonry surfaces
- Zinc Rich Products
- Composites

Protects:

- Tanks
- Equipment
- Conveyors
- Food processing plants
- Grain handling facilities
- Power generating plants
- Structural or support steel

The above are general recommendations and not intended to limit the use of Mult-E-Poxy 240. Test areas are always recommended to confirm results. NOT INTENDED FOR IMMERSION SERVICE.

Performance Characteristics

Mult-E-Poxy 240 will meet or exceed the following performance testing criteria.

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060, CS-17 Wheel 1kg Load, 1000 Cycles	156 mg loss
Cyclic Weathering	ASTM D-5894 2,000 hours	no blistering, face rust rated 10, 1 mm scribe creepage
Impact Resistance	ASTM 2794	Direct 60 in/lbs. Reverse 10 in/lbs
Heat Resistance	ASTM D 2485 High Temperature Service	Passes at 250° F (121° C)
Pencil Hardness	ASTM D 3363	H-2H
Corrosion Resistance	ASTM B 117-94 Salt Spray (Fog) Test 500 hours	no face blistering, no face rust, 1-2 mm scribe creepage
Moisture Condensation	ASTM D4585 1008 hours	no face blistering, no face rust.

Chemical Resistance

<u>Solvents:</u>	<u>Acid:</u>
MEK – Excellent	Acetic Acid 5% - Very Good
Toluene – Excellent	Acetic Acid 10% - Good
Xylene – Excellent	Phosphoric Acid 10% - Very Good
Unleaded Gas – Excellent	Phosphoric Acid 50% - Good
Denatured Alcohol – Excellent	Phosphoric Acid 85% - Good
Nethanol – Very Good	Lactic Acid – Excellent
Mineral Spirits – Excellent	Oleic – Excellent
Triethylamine – Excellent	Miscellaneous:
N-Butanol – Very Good	Bleach – Good
MIBK – Excellent	Dowanol PM – Very Good
5% Phenol PM Acetate – Very Good	Water – Excellent
Isopropyl Alcohol-Excellent	Hydrogen Peroxide 3% - Excellent

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Chemical Resistance continued

<u>Solvents: continued</u>	<u>Miscellaneous: continued</u>
Butyl Cellosolve – Very Good	Povidone Iodine 10% (Betadine) – Good
Perchloroethylene – Excellent	TSP 1% - Excellent
Ethylene Glycol – Excellent	TSP 10% - Excellent
<u>Salts and Bases:</u>	Windex w/AM.D - Excellent
Sodium Hydroxide 10% (NaOH) - Very Good	
Sodium Hydroxide 50% (NaOH) – Excellent	
Ammonium Hydroxide 10% (HH4OH) – Excellent	
Ammonium Hydroxide 28% (HH4OH) – Excellent	

Recommended Primers, Fillers and Sealers

Ferrous Metal	Iron Prime 600 Quick Dry Universal Primer Mult-E-Prime 500 High Build Epoxy Primer
Galvanized & Aluminum Metal	Self Priming
Wood	Self Priming
Drywall	DU-1514 Apex Primer/Sealer
Plaster	CU-1401 Alkyd Enamel Undercoat
Interior Concrete Block (wet environment)	BF-1501 Permafil Block Filler Versa Prime 100 Acrylic Epoxy Block Filler
Interior Concrete Block (dry environment)	BF-1515 Acrylic Block Filler
Poured Concrete	Mult-E-Prime 505 Clear Epoxy Concrete Primer/Sealer

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 "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. Mult-E-Poxy 240 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. 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 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 Jiffy mixer to disperse pigments. 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 bristle 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 Gun Cleaner or MEK. 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
0.013" to 0.017"	2500 - 3000 PSI	1/4" - 3/8"	60 mesh

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TECHNICAL DATA**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 of the product. **All technical information is subject to change without notice.**