

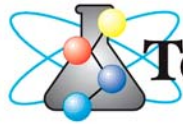


Heavy Duty Protective Coatings

PL-0512

V-Tech 705

Organic Zinc Rich Epoxy Ester Primer



## Technical Data

### PRODUCT DESCRIPTION

A general purpose, single component, organic zinc rich primer formulated for severe industrial environments. This product is comparable to hot-dip galvanizing. VOC compliant.

### INTENDED USES

Formulated for use as a primer on structural steel, steel tanks, pipes and equipment. Ideal for touch up and repair of galvanizing or inorganic zinc coatings.

### PHYSICAL PROPERTIES

|                           |  |
|---------------------------|--|
| Color                     | Gray   |
| Finish/Sheen              | Flat   |
| Resin Type                | Epoxy Ester  |
| Clean-up Solvent          | Diamond Vogel N-3023 Xylol                         |
| Solids By Weight          | 84%  |
| Solids by Volume          | 46%  |
| % of Zinc at DFT          | 94%  |
| Theoretical Coverage**    | 737 ft <sup>2</sup> / gal @ 1 mil                  |
| Dry Film Thickness / Coat | 2 - 3.5 mils (50 - 87.5 microns)                   |
| Wet Film to Achieve DFT   | 4 - 7 mils (100 - 175 microns)                     |
| Coverage at DFT**         | 210 - 368 ft <sup>2</sup> / gal @ 2 - 3.5 mils DFT |
| VOC's                     | 3.93 lbs./gal. (446 grams/liter)                   |
| Thinning                  | DO NOT THIN  |

Drying Time\* (hours) [ASTM D 1640]      At 70°F (21°C)  
 Set to Touch - 30 minutes  
 Recoat Time - 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.

### PERFORMANCE

Performance criteria meets or exceeds Master Painters Institute (MPI) # 18 approval standards.

### RECOMMENDED TOPCOATS

- V-Cote 200 Acrylic Maintenance Primer/Finish (MC-Series)
- V-Cote 222 Acrylic Maintenance Finish (MC-Series)
- Pinnacle 330HS Polyurethane
- V-Tech 500 Hi-Build Epoxy Primer
- Mult-E-Poxy 180 Epoxy Mastic

## ***SURFACE PREPARATION***

All surfaces must be cured, clean, sound, dry and free of all dirt, dust, efflorescence, wax, oil, grease, chalk and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared prior to application of this product.

### **Ferrous Metal and 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. 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.

## ***APPLICATION***

Stir material thoroughly prior to application. Constant agitation is recommended to keep heavy zinc material in suspension. Minimum surface and air temperature required for application is 40° F (4° C) and at least 5° F (3° C) above the dew point. Curing is affected by temperature, humidity and air movement. The minimums must be maintained for at least eight (8) hours in order to achieve proper film formation. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation.

### **Brush or Roller:**

Apply product in full even coats. Maintain a wet edge. Allow the product to dry before topcoating (See the drying times chart for recoat period). A good quality natural 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 Diamond Vogel N-3023 Xylol. Equipment must be clean prior to start. Apply a wet coat in even, parallel passes with 50% overlap to avoid bare areas.

| <i>Tip Orifice</i> | <i>Atomizing Pressure</i> | <i>Mat'l Hose ID</i> | <i>Manifold Filter</i> |
|--------------------|---------------------------|----------------------|------------------------|
| 0.017" to 0.019"   | 2500 - 3000 psi           | 1/4" or 3/8"         | None                   |

## ***STORAGE & SHELF LIFE***

Store in protected area maintained at 40 - 100°F (4 - 38°C), for up to two years from date of manufacture. Subject to inspection thereafter.

## ***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.**