



VFI 1003 CORROSION INHIBITING POLYURETHANE PRIMER

Overview

- **Description**
VFI-1003 is a solvent based corrosion inhibiting polyurethane primer containing micaceous iron oxide.
- **Color**
Red
- **Usage**
This product is designed for properly prepared steel. Also suitable as a tie coat primer over elastomeric products prior to recoating with urethane coatings.
- **Consistency**
Low viscosity fluid.

Physical Properties

- **Hardness**
Forms a tough, resilient, abrasion resistant film.
- **Abrasion Resistance Adhesion**
Excellent adhesion to metals, concrete, masonry and most coating and plastic materials.

Weather & Environmental Performance

- **Weatherability & QUV Test Data**
Not intended for use without a coating
- **Water Vapor Permeability**
Cures to form a solvent and vapor resistant film
- **Chemical Resistance**
Good solvent, acid alkali and salt resistance. Excellent corrosion inhibitive properties
- **Flammability**
Flammable Liquid

Liquid Component Properties

- **Solids**
Weight: 75.60%
Volume: 61.66%
- **Viscosity**
Low viscosity fluid
- **Liquid Material Density & Specific Gravity**
10.58 lbs/gal (SG 1.270 g/ml)
- **VOC**
The volatile organic solvent content is 335 grams per liter. (High flash, aromatic solvent).
- **Flash Point**
Above 108°F (41 °C) T.O.C..
- **Toxicity**
 - Contains Solvents which require ventilation of solvent vapors during application.
 - Contains approximately 20% polyisocyanate which may be irritating to the skin and is toxic if inhaled as particulate matter.
 - Any material contacting the skin should be neutralized by washing with generous quantities of water.

- A respirator is required as inhalation of particulate matter is possible during spray application.

- **Storage Stability**

Six months in original, unopened containers. Material may gel if not kept in tightly sealed or if exposed to moisture. Containers should be used within one week of opening.

Application

- **Substrate Preparation**

All surfaces must be free of all contaminants and be able to provide mechanical adhesion for the coating.

- **Equipment**

VFI-1003 can be brushed, rolled or sprayed using conventional equipment. However the applicator must take precautions against inhalation of particulate matter. Use of proper respirator is necessary.

- **Coverage**

- Coverage on steel surfaces is 500sq./ft./per gallon (12.28 sq. meters per liter). This will yield 1.97 mils dry film thickness (50 microns).
- May be as low as 400 sq. ft. per gallon on heavily pitted surfaces.

- **Cure Time**

Primer will dry in 6 hours at 77°F

- **Recoat Time**

- VFI-1003 must be coated within 24 hours. After 24 hours, inter-coat adhesion can be poor

- Freezing temperatures will extend the recoat time up to 72 hours due to the slow down in rate of cure.

- Solvent must be completely evaporated from film or the coating will blister.

- **Clean-up Solvent**

Clean equipment with Xylene or M.E.K.

- **Limitations**

Contact VFI's Technical Department for appropriateness of this product for your specific application.

- **Precautions**

See Safety Data Sheet for complete safety data. Do not heat VFI-1003 before or during spray application. Protect from exposure to moisture. Water will cause the product to generate carbon dioxide with resulting high pressure in closed containers.

- **Thinning**

Not recommended

- **Packaging**

5 gallon pails
55 gallon drums

For more information, contact us today at **800-307-9218**

Corporate Office: P.O. Box 344 • Brookfield, WI 53008 • (800) 307-9218 • (262) 787-0400 • Fax (262) 787-0500 • www.volatilefree.com

This information and technical advice provided herein are believed to be reliable and accurate to the best knowledge of Volatile Free, Inc. As based on tests and should serve only as a recommendation. As the manufacturer, Volatile Free, Inc. makes no representations or warranties of any kind, expressed, implied or statutory, including but not limited to all implied warranties of merchantability or fitness for use or a particular purpose, or any other matter with respect to this product. Volatile Free, Inc. makes no representations or warranties as to the results of the use of the product and assumes no obligation or liability in connection therewith. Volatile Free, Inc. is not liable for any special, exemplary, punitive, incidental or consequential damages of any sort or kind from use of this product. The information provided herein is subject to change at any time without notice. Information changes may include, but are not limited to, commercial and technical changes, changes in pricing, physical characteristics and packaging.