

SINGLE COMPONENT POLYURETHANE PRIMER

■ Description

VFI-1003 is an isocyanate, single component corrosion inhibiting polyurethane primer containing micaceous iron oxide.

■ Usage

Intended for use as a primer to be applied directly to steel or concrete. It is also suitable for use as a tie

coat when applied over elastomeric coatings prior to recoating with some other coating system.

■ Color

Red

■ Consistency

Low viscosity fluid, easily applied by brush, roller, or spray. Pigments settle to a soft, easily resuspended condition.

Physical Properties

■ Weatherability

Fair. Do not expose to strong sunlight for more than two weeks.

■ Chemical Resistance

Good solvent, acid, alkali and salt resistance. Has excellent corrosion inhibitive properties.

■ Hardness

Forms a tough, resilient, abrasion-resistant film.

■ Water Vapor Permeability

Cures to form a solvent and vapor resistant film.

■ Toxicity

Contains solvents which require ventilation of solvent vapors during application. Contains approx. 20% of a 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. Spray application can lead to inhalation of particulate matter; consequently, a respirator is required for spray application.

■ Adhesion

Excellent adhesion to metals, concrete, masonry and most coating and plastic materials.

Liquid Component Properties

■ Coverage

Coverage on rough or porous surfaces may be as low as 150 sq. ft. per gallon (one gal./sq.) and on smooth surfaces up to 300 sq. ft. per gallon.

■ Weight Per Gallon

10.58

■ Solids

Weight: 73 ± 2%

Volume: 60 ± 1%

■ Flash Point

Above 106°F (41°C) T.O.C.

■ Storage Stability

Six months in original unopened containers. Material may gel if not kept tightly sealed or if exposed to moisture. Normally, containers should be used up on a job or within one week after originally being opened.

■ Cleaning

Clean equipment with Toluene, Xylene or M.E.K.

■ Primer Application

Apply to clean, dry, and oil free surfaces at 200 - 300 sq. ft. per gallon (4.9 – 7.4 sq. meters per liter). This will yield 3.2 – 4.8 mils dry film thickness (81-122 microns). VFI - 1003 can be sprayed using conventional equipment but the applicator must take precautions against inhalation of particulate matter. Use of a proper respirator is necessary. Do not heat VFI-1003 before or during spray application. The primer must be coated within 24 hours. After 24 hours, inter-coat adhesion can be poor. Freezing temperatures will extend this recoat time up to 72 hours, due to the slow down in cure.

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