

HIGH IMPACT EPOXY PRIMER

Description

VFI-3200 is a two component, 100% solids, 1:1 epoxy primer designed for spray application. This material has excellent impact resistance and provides a final cured film that is tough and flexible. It can be used to prime wood, metal and concrete and can be used as a mortar system for aggregate. The VFI-3200 can be top-coated with both epoxy and polyurethane formulations. Initially designed for horizontal surfaces this material can be modified for vertical surface priming capability.

VFI-3200 was developed for use with the VFI-3201, VFI-3202 and VFI-3203 spray systems. It is best applied at temperatures between 50- 95°F with relative humidity less than 85%.

Usage

Primer for concrete, wood or metal.

Color

Standard color is clear. Contact Volatile Free, Inc. for more information on custom colors.

Physical Properties

Hardness

60 Shore D

Tensile Properties

ASTM D412

Strength:

3000 psi

Elongation:

20-30% min

Impact Resistance

160 in/lbs

Solid Material Density

66.35 lb/ft³

Adhesion

(100% concrete failure)

>450 psi

Weather & Environmental Performance

Chemical Resistance

Water, Mild Acids

Water Vapor Permeability

(ASTM E-96) 30 mil film

<0.04 perm

Water Absorption

(ASTM D-471) 24 hours at room temp < 0.10 %

Liquid Component Properties

Ratio

By volume

1:1

By weight

"A" side 100

"B" side 88.9

Coverage or Yield

160-320 ft²/gal or 1600 mil feet / gallon

Solids

100%

Viscosity

"A" side:

1000 cps

"B" side:

800 cps

Mixed:

850 cps

Liquid Material Density & Specific Gravity

"A" side 9.39 lbs/gal (SG 1.13 g/ml)

"B" side 8.35 lbs/gal (SG 1.00 g/m)

Mixed 8.87 lbs/gal (SG 1.06 g/m)

VOC

0%

Toxicity

Non toxic

Shelf Life

12 months in unopened container. Keep Poly "B" side covered at all times when not in use.

Application

- **Equipment**
Mix with an electric or pneumatic mixer in a mixing vessel and apply with a flat squeegee can be used for application.
- **Surface Preparation**
Mechanically abrade and chemically treat the surface. Test for adhesion to any existing surface coating. Contact VFI's Technical Department further assistance.
- **Mixing**
One gallon kit can be hand mixed. Larger quantities must be power mixed.
- **Material Preparation**
Premix each component separately for 2-3 minutes prior to batch mixing. After each component is mixed, place the correct volume of each system component into a mixing vessel and mix at low speed for 3 minutes. Minimize the amount of air mixed into the batch. Avoid creating a large vortex while mixing.
- **Clean Up Solvent**
Acetone or Xylene
- **Reactivity**
 - **Gel time:** 25 minutes (150g mass); 20 minute pot life @ 77°F
 - **Tack free:** 5-6 hours @ 77°F
 - **Recoat time: With Epoxy:** 5-36 hours @ 77°F
With Polyurethane: 5-12 hours @ 77°F
 - **Cure time:** 5 days for full cure
 - **Place into service time:** 6 hours foot traffic
- **Limitations**
Only apply at temperatures between 50-95°F.
- **Precautions**
B side is CORROSIVE! Refer to the MSDS for specific component hazards. Make sure that the proper surface preparation steps are taken to avoid delamination and other deformities.
- **Thinning**
Thinning is not recommended.
- **Packaging**
 - 1 Gallon Cans
 - 5 Gallon Pails
 - 15 Gallon Drums

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