

POLYUREA MASTIC

■ Description

VFI-221 is a 100% solids, two component one to one by volume polyurea mastic.

■ Usage

VFI-221 is intended for use as a trowel or brush applied mastic which can be used for repairing 100% solids fast set coating systems or small areas that can be coated using a trowel or squeegee. Also suitable as a repair compound for rubber belting.

■ Color

Standard color for VFI-221 is black. Custom colors are also available. Please contact Volatile Free, Inc. for more information.

Physical Properties

■ Chemical Resistance

Good hydrolytic stability to 180°F. Good resistance to inorganic bases, acids, and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents.

■ Tensile

ASTM D-412
Strength: 5000 psi
Elongation: 200%
Permanent Set: 10% max.

■ Hardness

ASTM D-2240
Shore A 75 - 80
Shore D 30 - 32

■ Tear Resistance

ASTM D-624
Die C 500 pli

■ Abrasion Resistance

Excellent.

Liquid Component Properties

■ Solids

Weight: 100%
Volume: 100%

■ Viscosity

Poly Component:
1000-1200 cps @ 77°F
Iso Component:
800-1000 cps @ 77°F

■ Density

Poly Component:
8.5 - 9.5 lbs./gal. (S.G. 1.03-1.14)
Depending on color.
Iso Component:
8.9 lbs./gal. (S.G. 1.06)

■ V. O. C.

Conforms to all air pollution regulations. Contains no volatile organic compounds.

■ Flash Point

ASTM D-56 (TCC)
Greater than 200°F.

■ Toxicity

Iso component contains polymeric isocyanate, requiring fresh air supply respirator, gloves, and protective clothing if applied by spraying. Protective equipment is not normally needed for brush or trowel application.

■ Storage Stability

Six months in unopened containers at 50° - 85°F.

Application

■ Mixing

Mix product at a ratio of 1 to 1 by volume. Poly component freezes at 70°F and must be warmed to 75°F before mixing. Pot life is 5 minutes.

■ Reactivity & Cure Time

Reacts to form a thixotropic compound in approximately one minute. Spreadable with a trowel for up to 5 minutes. May be worked and smoothed with a trowel for up to 10 minutes, if a lubricating solvent such as Xylene is used.

■ Equipment

Apply with a flat trowel or with a two component caulking gun.

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