

## POLYUREA MASTIC

### ■ Description

VFI-220 is a 100% solids, two component one to one by volume polyurea mastic coating.

### ■ Usage

VFI-220 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-220 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: 4000 psi  
Elongation: 250%  
Permanent Set: 20% max.

### ■ Hardness

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

### ■ Tear Resistance

ASTM D-624  
Die C 400 pli

### ■ Abrasion Resistance

Excellent.

## Liquid Component Properties

### ■ Solids

Weight: 100%  
Volume: 100%

### ■ Viscosity

Poly Component:  
900-1100 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:  
8.8 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

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### ■ 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. Spread with a trowel within 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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