

WATERPROOFING MEMBRANE SYSTEM

■ Description

VFI-425 is 100% solids, two component, fluid applied, polyurea hybrid coating.

■ Usage

VFI-425 is primarily used for waterproofing foundations and structures, coating of urethane or expanded polystyrene foam insulation, protection of concrete from acids and alkaline materials. This material shall be installed on the side of the wall with the positive water pressure only.

■ Color

Black. Contact your Volatile Free, Inc. Representative for other colors.

Physical Properties

■ Chemical Resistance

Good resistance to inorganic bases, acids and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents. Good resistance to hot water up to 180° F.

■ Tensile

ASTM D-412
Strength: 2481 psi
Elongation: 44%
Permanent Set: 10% max.

■ Hardness

ASTM D-2240
Shore A 93
Shore D 50

■ Tear Resistance

ASTM D-624
Die C 182 p/i

■ Abrasion Resistance

Excellent.

■ Water Absorption

Thickness: 32 mils
Temperature: RT
Time: 24 hours
% weight gain: 0.41%

■ Water Vapor Permeability

ASTM E-96
Method B 0.64 perm @
30 mil thickness @ 75°F

Liquid Component Properties

■ Solids

Weight: 100%
Volume: 100%

■ Viscosity

Poly Component:
600-1000 cps @ 77°F.
Iso Component:
600-1000 cps @ 77°F.

■ Density

Poly Component: 0.99
Iso Component: 1.14

■ 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 during application.

■ Storage Stability

12 months in unopened containers @ 50° - 90°F.

Application

Thoroughly mix the colored component in order to re-suspend any pigment that may have settled out. Apply, using hot airless spray equipment capable of producing a minimum of 1500 psi and maintaining an application temperature of 130° - 150°F. The mixing ratio shall be maintained within 0.95 to 1.1 volume of isocyanate to 1 volume of polyol. Impingement mixing, air purge spray guns are suggested for ease of application. VFI-425 gels in 5-10 seconds and cures to handle in 30-60 seconds when applied using hot airless spray equipment. Allow 2 to 4 hours for complete cure if back filling.

■ Primer

If spraying directly on to good, non degraded foam, no primer is needed. Other surfaces please refer to the primer selection chart.

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