

BATCH MIX ALIPHATIC COATING

■ Description

VFI-250 is a two component, four parts of Iso to one part Poly by volume; batch mix aliphatic polyurea hybrid coating that has a long pot life and moderate tack free time.

■ Usage

VFI-250 is designed for use as a colorfast wearing and waterproofing membrane for pedestrian decks, auto decks, and industrial flooring. Can be used as an color stable top coat over epoxy floor coating.

■ Color

Standard color for VFI-250 is clear. Please contact Volatile Free, Inc. for more information on custom colors.

Physical Properties

■ Chemical Resistance

Good hydrolytic stability up to 160° F. Water resistance is excellent. Good resistance to acids and hydrocarbon solvents. Fair resistance to oxygenated solvents, chlorinated solvents, and inorganic bases.

■ Tensile

D-412
Strength: 6,000 psi
Elongation: 25%

■ Hardness

ASTM D-2240
Shore D 80 ± 3

■ Abrasion Resistance

ASTM D-4060 1000 Kg load,
1000 cycles CS-17 wheel,
-53 mg loss.

Liquid Component Properties

■ Coverage

Sq. Ft./Gal./Mil 1120

■ Solids

Weight: 100%
Volume: 100%

■ Viscosity

Poly Component:
1000 -1100 cps @ 77°F.
Iso Component:
700 - 800 cps @ 77°F.

■ Density

Poly Component:
9.5-10.5 lbs./gal. (S.G. 1.1-1.26)
Depending on color.
8.3 lbs./gal. (S.G. 1.0)
For neutral
Iso Component:
8.18 lbs./gal. (S.G. 0.98)

■ Flash Point

Above 81°F T.O.C.

■ Toxicity

Contains solvent that requires ventilation during application. Contains polyisocyanate that may be irritating to the skin and is toxic if inhaled as particulate matter. Material contacting the skin should be neutralized by washing with generous amounts of water.

■ Storage Stability

One year in unopened original containers at 40° - 90°F. Normally, containers should be used within one week after opening.

Application

VFI-250 should be applied at a rate of 1 gallon per 100 square ft. When using granules to provide a higher friction surface, a two-coat process should be used. Apply 1 coat at 3/4 gallon per 100 sq. ft.

with granules broadcast into the first coat and then top coat at a rate of 3/4 gal. per 100 sq. ft. Can be applied at thicker rates than described above, contact Volatile Free, Inc.'s technical department.

Processing

■ Mixing

Best results are obtained by pouring the ISO into the mixing container first. Then mix a quarter volume of Polyol into the ISO.

■ Pot Life

Pot life of a one gallon quantity is 45 min @ 70°F. Higher temperatures and larger quantities will shorten pot life. Lower temperatures and smaller quantities will lengthen pot life.

■ Cure Time

When applied at 3/4 gal per square, VFI-250 will be ready for recoat in 4 hours @ 70°F. Allow 12 hours after final coat @ 70°F before permitting foot traffic. Thicker films take longer to cure.

■ Equipment

VFI-250 can be applied by notched trowel, medium nap roller, squeegee or brush.

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