

QWIK SPRAY ROOFING ELASTOMER

■ Description

VFI-540 Aluminum is a one-to-one by volume polyurea hybrid roof coating. It is packaged in dual 750ml cartridges for use with the VFI Qwik Spray System.

VFI-540 Aluminum should not be used directly over rough built-up roofs unless polyurethane foam is used to create a smooth surface. VFI-540 Aluminum can also be used over various single-ply membranes. Contact Volatile Free, Inc. for more information.

■ Usage

VFI-540 Aluminum is intended for use as a spray applied protective roof coating for use over concrete, metal, polyurethane foam and smooth built-up roofs.

■ Color

Aluminum.

Physical Properties

■ Weatherability

Q.U.V. Weatherometer exposure equivalent to 15 years with no visible deterioration or change in 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: 1752 psi
Elongation: 200-300%
Permanent Set: 10% max.

■ Hardness

ASTM D-2240
Shore A 85 ± 3

■ Tear Resistance

ASTM D-624
Die C 199 pli

■ Abrasion Resistance

Excellent.

■ Water Vapor Permeability

ASTM E-96
Method B 0.45 perm in. @ 29 mil thickness @ 68°F

■ Water Absorption

ASTM D-471
24 hours @ room temp. 1.3%

Liquid Component Properties

■ Solids

Weight: 97%
Volume: 96%

■ Flash Point

ASTM D-56 (TCC)
Greater than 200°F.

■ Viscosity

Poly Component: 550 ± 75 cps @ 77°F
Iso Component: 550 ± 75 cps @ 77°F

■ Toxicity

Iso component contains polymeric isocyanate requiring fresh air supply respirator, gloves, and protective clothing during application.

■ Density

Poly Component:
8.4 ± 0.2 lbs./gal. (S.G. 1.01)
Iso Component:
9.85 ± 0.2 lbs/gal. (S.G. 1.18)

Application

■ Reactivity

Tack free time is 30-60 seconds when sprayed with the VFI Qwik Spray System.

■ Cure Time

Applied coating will set in 5-15 minutes at 70°F, depending on the film thickness and substrate temperature. Product can be placed into service after four hours of cure time at 70°F minimum.

■ Surface Preparation

Please refer to Volatile Free, Inc. Roofing Specifications relating to your particular project.

■ Cartridge Preparation

Prior to installing the cartridges for spraying, insure that the material is between 75°F and 90°F. Re-suspend any settled pigment by rotating the cartridge end to end several times.

■ Qwik Spray System Settings

With a minimum of 120 psi available compressed air, set fluid control to full clockwise position. Set atomizing air to 30 psi.

■ Coverage

One case of six kits (750 x 750 ml) will cover 100 sq./ft. @38 mil thickness.

Corporate Office: P.O. Box 344 / Brookfield, WI 53008 / 800-307-9218 / 262-787-0400 / Fax: 262-787-0500

This information and technical advice provided herein are believed to be reliable and accurate to the best knowledge of Volatile Free, Inc., as based on tests and should serve only as a recommendation. As the manufacturer, Volatile Free, Inc. makes no representations or warranties of any kind, expressed, implied or statutory, including but not limited to all implied warranties of merchantability or fitness for use or a particular purpose for the product. Volatile Free, Inc. makes no representations or warranties as to the results of the use of the product and assumes no obligation or liability in connection therewith. Volatile Free, Inc. is not liable for any incidental or consequential damages of any sort from use of this product. The information provided herein is subject to change at any time without notice. Information changes may include, but are not limited to, commercial and technical changes, changes in pricing, physical characteristics and packaging.