



VFI-605-1 PREMIUM GRADE ELASTOMERIC ROOF COATING

Overview

Description

VFI-605-1 is a premium grade water-based elastomeric coating which cures to form a seamless membrane when applied over the entire roof area. VFI-605-1 offers the unique ability to extend the life cycle of new and existing roof systems, in addition to keeping the surface cool, providing protection from ultraviolet sun and other weather exposures.

with smooth and mineral surfacing, sprayed polyurethane foam, most metal roof systems, single-ply membranes, concrete, exterior-grade plywood, rigid coverboards. Use to certain substrates may be limited or require additional work depending on substrate or project conditions.

- Suitable for use on cementitious stucco, EIFS and other masonry surfaces.

Usage

- Protect and seal a variety of roof surfaces. Suitable for use on various conventional BUR and polymer modified roof membranes

Color

White

Features and Benefits

Description

- VFI-605-1 is compliant with the stringent standards of CRCC and the California Title 24 (white color only).
- Extends the useful life of the roof.
- Offers high tensile strength and elongation.
- Resistant to dirt pick up.
- Offers excellent resistance to extended exposure to solar ultraviolet energy.
- UL and FM approved.

- By decreasing roof surface temperature, VFI-605-1 can reduce energy costs.
- Fungal and algal resistant-even in high temperatures.
- Low VOC, non-flammable and presents minimal hazard to the applicator or the environment.

Physical Properties Per ASTM D6083

Initial Tensile Strength

ASTM D2370 200 psi minimum

Initial Elongation

ASTM D2370 300 % minimum

Tear Resistance

ASTM D624 80 pli minimum

Fungi Resistance

ASTM G21 0

Permeance (perms)

ASTM D1653 14

Resistance to Wind Driven Rain

TT-C-555B Pass

Water Swelling (% mass)

ASTM D 471 20

Film Properties After 1000 hrs Accelerated Weathering D4798

Elongation

ADTM D2370 350 % minimum

Low Temperature Flex

ASTM D522 Pass

Appearance After 1000 hrs Accelerated Weathering

ASTM D4798 Pass

Aged Solar Reflectance of White

*Rapid Ratings 0.81

Aged Thermal Emittance of White


*Rapid Ratings 0.90

Liquid Component Properties And Environmental Performance

- **Solids**
Weight – ASTM D 1644 61%
Volume - ASTM D 2697 57%
- **Liquid Material Density & Specific Gravity**
ASTM D 2939 10.90 +/-0.50
- **VOC**
The volatile organic content is <50 grams per liter.
Flash Point (°F) >212.
- **Storage Stability or Shelf Life**
Typically 18 months from date of manufacture when properly stored. Keep containers covered when not in use. Do not store at temperature greater than 120°F. Do not allow product to freeze. Discard if any degrees of freezing would occur.
- **Service Temperature**
 - -50°F to 200°F

Application

- **Equipment**
Brush, roller and high pressure sprayer for best appearance and coverage.
- **Material Preparation**
Do not apply at temperatures less than 40°F or greater than 120°F. Store 24 hours at room temperature prior to application.
- **Mixing**
Stir well prior to application. To field tint this product, please use a water-based, exterior-grade pigment, only with approval from Volatile Free, Inc.
- **Substrate Preparation**
 - All surfaces to receive coating must be clean, dry and free from any foreign matter such as dirt, oils, grease or other debris that could inhibit the adhesion capabilities of the newly installed products.
 - Metal surfaces that display rusting or other oxidation, to be prepared with a grinder or wire brush as needed to remove surface contaminants.
 - Existing roof systems to be visually inspected for conditions that may adversely affect adhesion of performance of newly installed products, Repair any visible deficiencies such as splitting, blistering, and buckling with VFI-630 Flashing Grade and/or polyester fabric prior to application.
 - Visually inspect all metal and non-metal flashings, edges, drains, valleys and through-roof penetrations and repair as needed by project conditions.
- Do not apply to wet or visibly damp surfaces, or surfaces previously covered with coal tar based products or Kynar finishes.
- Concrete surfaces cured with wax/resin based compounds can inhibit adhesion.
- **Application**
See VFI Specification for specific application information.
- **Clean Up**
Clean equipment and overspray with water. Clean hands with waterless hand cleaner.
- **Precautions**
See Safety Data Sheet for complete safety data and handling of the product.
- **Thinning**
Do not thin. Do not heat outside of container.
- **Packaging**
 - 5 Gallon Pail
 - 50 gallon Drum
 - 275 Gallon Tote

 CRRC COOL ROOF RATING COUNCIL		Initial	Rapid Ratings*	Weathered
	Solar Reflectance	0.87	0.81	Pending
	Thermal Emittance	0.9	0.9	Pending
RAPID RATINGS	Rated Product ID	0948-0013		
	Licensed Manufacturer	0948		
	Classification	Production Line		
<small>*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-year aged values upon completion of the weathering process. Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>				

For more information, contact us today at **800-307-9218**

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