

VFI®-605-1 WHITE ACRYLIC COATING

VFI-605-1 White Acrylic Coating is a single-component, fluid applied, elastomeric roof coating. As a water-based product, it is best used when a large roof needs to be sprayed and cleanup is important. For smaller roofs, it is easy to roll, and minimal labor is required to get the job done quickly. When applied as a top coat in a commercial roof restoration system, it forms a seamless, waterproof film to protect the substrate from impacts, UV radiation, and weathering. For future recoats, VFI-605-1 can be recoated with any type of liquid-applied roof coating.

- Easy application using a variety of methods, and cleanup is simple with water
- Better impact resistance to hold up against physical wear and tear
- Less sticky finish results in less dirt pickup, less maintenance, and a cleaner roof
- Withstands extreme weather conditions and UV rays to help extend the life of the roof
- Contains fewer VOCs than the EPA standard
- Approval under Miami Dade ASTM 6083 Type I

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULTS
Tensile Strength	ASTM D2370	201 psi
Elongation	ASTM D2370	718%
Final Elongation after 1000 Hours	ASTM D2370	574%
Tear Strength	ASTM D624	84 pli
Aged Solar Reflectance of White	CRRC 0948-0013	0.76
Aged Thermal Emittance of White	CRRC 0948-0013	0.92
Permeance	ASTM D1653	14 perms
Low Temperature Flexibility	ASTM D522	Pass
Accelerated Weathering after 1000 Hours	ASTM D4798	Pass

LIQUID PROPERTIES	TEST METHOD	TEST RESULTS
Solids by Weight	ASTM D1644	61%
Solids by Volume	ASTM D2697	57%
Liquid Density	N/A	10.90 lbs/gal
Specific Gravity	N/A	1.30 g/mL
Viscosity	ASTM D2196	8,500 cps
Tack Free Time	N/A	1-2 hours @ 75°F, 50% Rh
Cure Time	N/A	2-4 hours @ 75°F, 50% Rh
Recoat Window	N/A	2-48 hours @ 75°F, 50% Rh
VOC	N/A	<25 g/L



Cements and coatings for roofing systems as to an external fire exposure only 84GM

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EQUIPMENT

Coating can be applied to the surface with airless spray equipment, industrial paint brushes, or nap rollers. If spraying, use equipment like Graco Big Rig Sprayers GH 733 or GH 833 that can maintain a minimum constant pressure of 3,000 psi and are capable of 4.0 gpm. They can be used with either siphon feed or direct immersion kits. We recommend using the spray equipment with Graco Xtreme-Duty High Pressure ½-inch hoses with ¼ or ⅜-inch whip hoses and Graco Silver Plus Guns with minimum .030 tips. Another option for spraying acrylic includes the Hennes-Johnson Model 4520 Cold Process sprayer, capable of 4,500 psi at 5.0 gpm.

SURFACE PREPARATION

Using a broom, clean the entire substrate of any dirt and debris that may affect adhesion. Power wash the surface as needed, and use a VFI-1009 Cleaning Detergent to scrub areas with grease, oil, and animal fats. Rinse the roof and allow it to dry before coating.

Make necessary repairs to the roof's structural components. Gaps and seams should be tight and flush. Eliminate gaps and deflections bigger than ¼" with additional screws or rivets. Loose or backed-out fasteners must be tightened or replaced with oversized fasteners. VFI always recommends the use of a primer like VFI-#11 9:1 Epoxy Primer for ensured adhesion.

MIXING

Mix the coating until uniform before use. Mix times may vary depending on volume and mixing method.

APPLICATION REQUIREMENTS

VFI recommends using a multicoat method of VFI-605-1 as a top coat and VFI-640-1 Gray Acrylic Coating as a base coat. Allow the base coat to cure before applying the top coat. The temperature must be between 50°F -120°F and must remain above 40°F until the coating has fully cured for ensured adhesion. Rain and moisture will negatively affect adhesion, so stop application if either is present. Bring the material to a minimum of 65°F before use.

Apply the coating at a minimum rate of 1 gallon per square. Material coverage of a base and top coat should total a minimum of 2.25 gallons per square. Check specifications for required wet and dry film thickness. The time between subsequent coats should not exceed 48 hours. Allow the material to cure before applying a second coat. Material cure time will vary with temperature.

*Roofs with a slope less than or equal to 1/12 should be fully reinforced with polyester fabric.

CLEANING

All application tools, including spray equipment, brushes, rollers, etc., can be cleaned with water. If the material has cured on or in the equipment, use chemically dry mineral spirits.

STORAGE/SHELF LIFE

The material shelf life is 12 months from the date of manufacture. Store in a dry, temperature-controlled space in sealed and unopened containers between 60°F - 90°F. VFI-605-1 must be protected from freezing.

PRECAUTIONS

VFI-605-1 must be protected from freezing. It is not recommended for use on flat roofs or where ponding water is present. Avoid breathing in vapors or repeated skin contact. Do not thin or add foreign material to the product. See Safety Data Sheet for complete safety data.

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