

GreenCoat 50

Acrylic Coating



Overview

GreenCoat 50 Acrylic Coating is a 100% acrylic, single-component, water-based, premium quality elastomeric coating for spray, brush, or roller application. This product is designed to provide protection for a wide range of building surfaces such as roofs, vertical walls, masonry, and spray polyurethane foam (SPF) roofing systems. It is excellent for waterproofing and restoring existing roof systems, as well as for weather protection of SPF roofing systems.

Features and Benefits

- Superior leak protection
- Easy to apply with conventional or airless spray equipment, roller, or brush
- Water-based and easy to clean up
- Excellent resistance to mildew, weathering, and UV exposure
- High solar reflectivity can contribute to energy savings

Coverage Rate

GreenCoat 50 Acrylic coating is 50% solids by volume so that a typical application rate of 1 gallons per 100 square feet should yield a dry film thickness of approximately 8.2 mils in one coat. Waste, wind loss, and other variables will affect the actual dry film thickness.

Installation

1. All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. Apply only to roofs that have adequate positive drainage (i.e. a minimum slope of 1/8 inch per foot).
2. Thinning or reducing is not recommended. Mix well before using. For drums: use a 3/4 hp air powered mixer with a 6" blade and shaft that will create a good vortex. For pails: use at least a 3" blade or a suitable hand mix paddle.
3. It is not recommended that this product be applied in temperatures below 50°F (10°C) or if inclement weather is expected within 1–6 hours of application. GreenCoat 50 Acrylic Coating will not cure below 50°F (10°C).
4. This product is suitable for application through conventional or airless spray equipment or with a roller, squeegee, or brush. Utilize a pump with a minimum output of 1 gallon per minute and 2,000 psi fluid pressure capability at 2–3 gallons per minute. Use a 30-mesh screen or larger. Use a spray tip with

a minimum orifice of .027" to .039" (.69 to .99 mm) and 50° fan angle. Medium to heavy nap roller pads are recommended. Use hoses dedicated for acrylic coatings.

5. GreenCoat 50 can be used as a top or base coating or in singlecoat applications.
6. This product may be applied directly to any approved, clean, dry surface. SPF should be coated within 24 hours of application. Subsequent coats should be applied within 24–72 hours of prior applications to ensure full and uniform adhesion. Coating may be applied in 2 or 3 separate applications of contrasting colors, each applied at right angles to the previous coat. Coating must be evenly applied. The coating will dry in 2–12 hours, dependent on weather conditions (such as temperature and humidity), after which another coat can be applied. Approved roofing granules may be installed in the topcoat to improve aesthetics, traffic resistance, and impact resistance.
7. Cleanup of spray equipment containing uncured material may be accomplished by flushing with water.

Review Green Shield Products specifications and details for complete installation information. Please contact GSP for more information.

Precautions

- Not recommended for ponding water, continuous immersion service, use in cold storage applications without a vapor retarder, or directly over asphaltic surfaces without GreenPrime BB bleed block primer
- GreenCoat 50 Acrylic coating is water-based and may freeze and become unusable at temperatures below 32°F (0°C).
- Do not apply over wet substrates or when inclement weather is imminent.
- The shelf life of this product in unopened containers when stored between 40°F and 70°F (10°C and 38°C) is 12 months from the date of manufacture.
- See Safety Data Sheet (SDS) for complete safety information.



Energy Efficient Building Product Solutions

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Ratings and Approvals

Title 24 compliant

Meets Requirements of ASTM D6083 Standard Specification for Liquid Applied Acrylic Coating Used in Roofing ASTM C1549

CRRG Listed (White)

Shipping Information

Typical Physical Properties

Container Size	Gross Weight	Class
5-gallon pail (18.9 L)	57 lbs. (25.9 Kg)	55
55-gallon drum (208.2 L)	660 lbs. (299.4 Kg)	55
D.O.T. Classification: BC - Roof Coating, Non-Regulated		Protect from freezing (32°F/0°C) during shipping and storage

Property	Test Method	Result
Tensile Strength	ASTM D2370	273 ± 20 PSI
Elongation	ASTM D2370	233 + 20%
Tear Resistance	ASTM D624	95 ± 3 PSI
Permeance	ASTM D1653B	14 ± 3
Reflectivity	ASTM C1549	0.88 (white)
Emissivity	ASTM C1371	0.90 (white)
Solar Reflectance Index	ASTM E1980	SRI - white: 111
Low Temp. Flexibility	ASTM D522	B Pass
Accelerated Weathering	ASTM D4798	Pass – 2,000 hours
Solids by Volume	ASTM D2697	51 ± 3%
Solids by Weight	ASTM D1644A	61.4 ± 3%
Flash Point	ASTM D1310	None
Water Swelling	ASTM D471	8%
Fungi Resistance	ASTM G21	0
Wet Adhesion to SPF	ASTM C794	7.2 pli
Cure Time	Min 2 hrs @100°F & 90% RH Tack Free 8–12 hrs Recoat After 12–24 hrs	
VOC	EPA Method 24	< 50 g/L
Color		White, Light Gray, and Tan

Special colors are available at an additional charge with minimum order. Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information are intended as a guide and does not reflect the specification range for any particular property of this product.



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