

GreenThane AR

Aromatic Polyurethane Coating



Overview

GreenThane AR is an aromatic polyurethane base coating for use over spray polyurethane foam (SPF), concrete, modified bitumen, smooth-surfaced BUR, and single-ply roofing systems. GreenThane AR offers toughness and high flexibility, making it extremely resistant to roof movement caused by normal expansion and contraction and reducing failures at flashings and penetrations. When used as a coating over GreenSeal SPF systems, the resulting roof provides edge-to-edge protection of the SPF system with added toughness and durability of urethane.

Features and Benefits

- Seamless fluid applied membrane
- Hail resistance
- Meets SCAQMD VOC requirements
- High tensile strength
- Excellent chemical resistance
- Highly flexible
- Sustainable

Coverage Rates

GreenThane AR Polyurethane Base Coating is 77% solids by volume so that a typical application rate of 1.5-2.0 gallons per 100 square feet should yield a dry film thickness of approximately 15-20 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, sound, and paintable.
2. GreenThane AR does not require thinning as supplied. However, if thinning is needed, the appropriate thinner (acetone) may be added to a maximum of 5%.
3. Can be roller, brush, or spray applied. Contact GSP for spray equipment information.
4. Substrate temperature must be above 40°F (4°C) and below 120°F (49°C). Do not apply when substrate or ambient temperature is within 5 degrees of the dew point.
5. Mix for a minimum of 3-5 minutes before applying. Mixed materials should be used immediately to avoid curing or skinning in the container with small amounts of atmospheric moisture.
6. Cures in 8-24 hours, dependent on weather conditions such as temperature and humidity. Do not apply additional coats until first coating is fully cured.

Precautions

- Not resistant to long-term UV exposure, not intended as a topcoat.
- This coating is a moisture cure and material left open to moisture in the air may have a skin of cured material form on the surface.
- Not recommended for use in constant water immersion.
- Not for use over lightweight insulating concrete.
- Not for use over aluminized coated roofs.
- Concrete must have a full 28-day cure period and less than 18% moisture prior to coating.
- Use bleed blocking primer prior to application of GreenThane AR over asphaltic substrates to avoid staining of the coating.
- Store material in a cool, dry area indoors. For maximum shelf life, store between 50°F and 80°F (10°C and 27°C).
- Handle with care and use with adequate ventilation. Before and during use, observe all safety labels on packaging and containers.

Review Green Shield Product's specifications and details for complete installation information. Please contact Green Shield Products for more information.



Energy Efficient Building Product Solutions

877.476-7453

greenshieldproducts.com



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Typical Physical Properties ¹

Property	Test Method	GreenThane AR
Tensile Strength	ASTM D412	1,010 psi
Elongation	ASTM D412	375%
Tear Resistance	ASTM D1004	100 pli
Water Resistance	ASTM D471	<3%
Hardness, Shore A	ASTM D2240	55
Fire Resistance	ASTM E108	Pass (as part of system)
Weight by Gallon	ASTM D1475	11.8 lbs/gal
Weight Solids	ASTM D5201	81%
Volume Solids	ASTM D5201	77%
VOC	EPA Method 24	<50 g/L
Flash Point	ASTM D3278	78°F (25°C)
Shelf Life		6 months
Cure Time, 77°F (25°C), 50% relative humidity		24 hours
Color		Dark Gray

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Shipping Information

Container Size	Gross Weight	Class
5-gallon pail (18.9 L)	63 lbs. (29 kg)	3 Red Label
55-gallon drum (189.3 L)	688 lbs (312 Kg)	UN 1263 Paint



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