

# GreenThane AL

## Aliphatic Polyurethane Coating



### Overview

GreenThane AL is a single-component, aliphatic polyurethane top coating for use over spray polyurethane foam (SPF), base-coats and other coatings, concrete, metal, modified bitumen, smooth-surfaced BUR, and single-ply roofing systems. GreenThane AL offers toughness and high tensile strength, 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 GSP SPF systems, the resulting roof provides edge-to-edge protection of the SPF with the added toughness and durability of urethane coatings.

### Features and Benefits

- Seamless fluid applied membrane
- Hail resistant
- High UV resistance
- High tensile strength
- Excellent chemical resistance
- Excellent color retention
- Highly flexible
- Sustainable

### Coverage Rates

GreenThane AL is 77% solids by volume so that a typical application rate of 1.0-1.5 gallons per 100 square feet should yield a dry film thickness of approximately 10-15 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 AL does not require thinning as supplied. However, if thinning is needed, the appropriate thinner (xylene) 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 6-12 hours, dependent on weather conditions such as temperature and humidity. Do not apply additional coats until first coating is fully cured.
7. Cleanup of equipment containing uncured material may be accomplished by flushing with xylene.

### Precautions

- This coating is moisture cured 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 with lightweight insulating concrete.
- Not for use over aluminized coated roofs.
- Concrete must have a full 28-day cure period and have less than 18% moisture prior to coating.
- Use bleed blocking primer prior to applying GreenThane AL 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). Store in accordance with local regulations for flammable liquids.
- Handle with care and use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers.

See Safety Data Sheet (SDS) for complete safety information. 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](http://greenshieldproducts.com)



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### Typical Physical Properties <sup>1</sup>

Property	Test Method	GreenThane AL
Tensile Strength	ASTM D412	2,300 psi
Elongation	ASTM D412	230%
Tear Resistance	ASTM D1004	200 pli
Water Resistance	ASTM D471	<2%
Moisture Vapor Transmission	ASTM E96	0.9 perms
Hardness, Shore A	ASTM D2240	85
SRI Initial/3 Year	ASTM D1980	111/94
Fire Resistance	ASTM E108	Pass (as part of system)
Weight by Gallon	ASTM D1475	10.8 lbs/gal
Weight Solids	ASTM D5201	80%
Volume Solids	ASTM D5201	77%
VOC	EPA Method 24	<50 g/L
Flash Point	ASTM D3278	69°F (20°C)
Shelf Life		12 months
Cure Time, 77°F (25°C), 50% relative humidity		6-12 hours
Color		White, Light Gray, Tan

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)	58 lbs. (28 kg)	3 Red Label
55-gallon drum (189.3 L)	635 lbs (288 Kg)	UN 1263 Paint



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