

Alumanation[®] 301

Premium reflective fibered aluminum coating

FEATURES

Proven Performance

One Coat Application

Rust Inhibitor

One Component

Cool Weather Applications

BENEFITS

- Successfully used for over 70 years
- Fewer labor steps; Does not require primer
- Can prevent future oxidation of existing rust
- No mixing errors; No extra labor steps
- Can be installed at 40°F (4.4°C) and rising

DESCRIPTION

Alumanation 301 is a premium grade, high solids, metallic pigmented, industrial maintenance coating formulated from specially processed asphaltic liquids, non-drying oils, a proprietary blend of natural and synthetic fibers, and aluminum pigment. It is formulated to meet ASTM D2824 Standard Specification for Aluminum-Pigmented Asphalt Roof Coatings, Nonfibered, and Fibered without Asbestos.

BASIC USES

Alumanation 301 is used for rustproofing and weatherproofing metal roofs, smooth BUR and modified bitumen roof systems. (*Refer to approved substrate and application chart below)

PACKAGING

5 gal (18.9 L) pail, 55 gal (208.1 L) drum

COLOR

Silver

GRADE

Brush, Roller, Spray

STORAGE

12 months shelf life in unopened containers when properly stored.

Recommended storage conditions are indoors in a ventilated, dry area removed from heat, open flame, ignition sources and direct sunlight. Storage temperatures should range from 60-70°F (15-21°C) and must not drop below 32°F (0°C) or exceed 110°F (43°C).

On the job site, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-colored, reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.

Shelf life could be affected if the product is not stored properly.

APPLICATION

Surface Preparation: Surface must be clean, dry, in sound condition, and free of dirt, debris, and contaminants. Rust must be abraded until it no longer exhibits flaking or chalking. Wet insulation must be identified and replaced. Deficient areas of existing system must be repaired. All repairs should be made with like materials matching the existing components and allowed to properly cure prior to application of liquid-applied products.

Mixing:

Pails: Use a heavy duty corded power drill with Jiffy Mixer mixing blade. Mix until product is consistent in appearance and viscosity. Do not thin.

Drums: Use industrial drum mixing equipment to mechanically mix each container. Mix until product is consistent in appearance and viscosity. Do not thin.

ROOF SUBSTRATES/ SURFACES APPLICATION CHART

Alumanation® 301

Product Type	Product Name	BUR - Smooth*	MB - Smooth (POWERply only)	MB - Granule (POWERply only)	Metal
Detailing Product	Geogard LO Base Coat Geogard Seam Sealer	TremLastic S 4-5 gal per 100 sq/ft under BUR- Smooth 3-Course: 30-65 In ft / gal	3-Course: 30-65 In ft / gal	3-Course: 30-65 In ft / gal	Geogard Seam Sealer 3-Course
Reinforcement	Permafab Rapid-Set Reinforcing Fabric (for use with TremLastic S)	Approx. 300 In ft / roll	Approx. 300 In ft / roll	Approx. 300 In ft / roll	Approx. 300 In ft / roll
Top Coat	Alumanation 301	2½ gals / SQ (40 wet mils)	2½ gals / SQ (40 wet mils)	2½ gals / SQ (40 wet mils)	2 gals / SQ (32 wet mils)

COVERAGE RATES

- Coverage rates are listed at minimum recommended rates. The application surface can affect the necessary coverage rate.

- Additional surface area must be accounted for on applications over corrugated or standing seam metal substrates. Coverage may require an additional 15-25% depending on profile.

Min Ambient: 40°F (4.4°C)

Max Ambient: 110°F (43.3°C)

- Minimum temperatures must be rising following application
- Do not apply when dew point is within 5°F (2.77°C) of ambient temperatures
- Do not apply when precipitation, fog or dew is imminent prior to cure of the product

TEMPERATURE RECOMMENDATIONS

SPRAY EQUIPMENT RECOMMENDATIONS

General Guidelines

Component	Pressure	Tip Size	Flow Rate	Filters	Hose Type	WHIP	Product Temp
One-Component	2,500 psi	.039 - .049	1.6 - 2.6 gpm	Remove	High Pressure	¼" High Pressure	Ambient

- Must use heavy duty or industrial grade spray tips
- Properly clean and maintain spray equipment before, during and after use
- Equipment should be properly grounded during use

Mineral Spirits/Xylene

- Not recommended for use over the following:
Roof Decks: Cementitious wood fiber, metal, poured-in-place gypsum, structural lightweight or lightweight insulating concrete, and wood decks (includes plywood, tongue and groove, etc.).
Products/Systems: Asphalt-based or coal tar gravel surfaced BUR systems, clay tile, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.
- Not for use under continuous immersion

CLEAN UP LIMITATIONS

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Low Temperature Flexibility	Pass ¼" mandrel @ 32°F (0°C)	ASTM D1737
Metallic Content	Min. 15%	ASTM D2824
Salt Spray - 100 hrs	No corrosion	ASTM B117
Reflectance	Initial - 0.66, 3 Yr Aged - 0.49	ASTM C1549
Emittance	Initial - 0.39, 3 Yr Aged - 0.52	ASTM C1371
SRI	Initial - 65, 3 Yr Aged - 42	
Solids Content - Volume	47%	ASTM D6511
Solids Content - Weight	61%	ASTM D6511
VOC	321 g/L	

Alumanation® 301

CODES & APPROVALS

Florida Building Code



	Initial Weathered	
Solar Reflectance	0.66	0.49
Thermal Emittance	0.39	0.52
Rated Product ID Number	0612-0004	
Licensed Seller ID Number	0612	
Classification	Production Line	

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.

MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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