Alumanation® 301 FR

Premium Fire-Resistant Reflective Fibered Aluminum Coating

FEATURES	BENEFITS
Fire Retardant	▪ Significantly reduces the potential for flame spread for most MB and BUR systems
One Coat Application	▪ Fewer labor steps; Does not require primer
One Component	▪ No mixing errors; No extra labor steps
Cool Weather Applications	▪ Can be installed at 40°F (4.4°C) and rising

DESCRIPTION

Alumanation 301 FR is a premium grade, high-solids, metallic prigmented, fire resistant industrial maintenance coating. It is formulated with specially processed asphaltic liquids, non-drying oils, a proprietary blend of fibers, aluminum pigment, and other additives to give the coating fire spread reducing benefits. Alumanation 301 FR is formulated to meet ASTM D2824 standard specification for Aluminum-Pigmented Asphalt Roof Coatings, Non-fibered, and Fibered without Asbestos.

BASIC USES

Alumanation 301 FR is intended for use in cases where weatherproofing and fire resitantance is required for most smooth BUR and modified bitumen roof systems. Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

PACKAGING

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

COLOR

Silver/Metallic

GRADE

Brush, Roller, Spray

STORAGE

12 months shelf life in unopened containers when properly stored.

DO NOT FREEZE

Recommended storage is 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. Existing wet roofing components 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.

Installation: Install product using one of the approved application methods evenly at the recommended coverage rate. Use wet mil gauges to monitor coverage rates throughout application.

- 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

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ACCEPTABLE ROOF SURFACES

Product Type	Product Name	BUR - Smooth	MB - Smooth	MB - Granule
Detailing Product	Geogard IO Base Coat Geogard Seam Sealer TremLastic S (not for use on metal)	3-Course: 30-65 ln ft / gal	3-Course: 30-65 ln ft / gal	3-Course: 30-65 ln ft / gal
Reinforcement	Permafab Rapid-Set Reinforcing Fabric (for use with TremLastic S)	Approx. 300 ln ft/roll	Approx. 300 ln ft/roll	Approx. 300 ln ft/roll
Top Coat	Alumanation 301	2½ gals/SQ (40 wet mils)	2½ gals/SQ (40 wet mils)	2½ gals/SQ (40 wet mils)

COVERAGE RATES

standing seam metal substrates. Coverage may require an additional 15-25% depending on profile.

TEMPERATURE/WEATHER RECOMMENDATIONS

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 (2.7°C) of ambient temperatures
- Do not apply when precipitation, fog or dew is imminent prior to cure of the product

CURE TIMES

Dry to Touch: 6 hours @ 77°F (25°C) / 50% RH
Note: Cure times can be effected by a number of weather and jobsite conditions including but not limited to exposure to sunlight and wind, humidity, precipitation, and temperature.

SPRAY EQUIPMENT RECOMMENDATIONS

GENERAL GUIDELINES

Component	Pressure	Tip Size	Flow Rate	Filters	Hose Type	WHIP	Product Temp
One-Component	4000 psi	.039 - .049	1.6 - 2.6 gpm	Remove	High Pressure	1/4″ High Pressure	Ambient

CLEAN UP

Mineral Spirits/Xylene

LIMITATIONS

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, corrugated or standing seam metal roof systems, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.

- Not for use under continuous immersion.

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Physical Property	Test Method	Test Value
Density (Weight per Gallon)	ASTM D1475	7.9-8.5 lbs/gal
Low Temperature Flexibility	ASTM D1737	Pass
Metallic Content	ASTM D2824	Min. 14%
Salt Spray - 100 hrs	ASTM B117	No corrosion
VOC		380 g/L
Volume Solids	ASTM D6511	58%
Weight Solids	ASTM D6511	60%
Reflectance	ASTM C1549	Initial - 0.65
Emittance	ASTM C1371	Initial - 0.40
SRI		Initial - 63

CODES & APPROVALS

Florida Building Code

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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