

PRODUCT 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, Non-fibered, and Fibered without Asbestos.

BASIC USES

Alumanation 301 is used for rustproofing and weatherproofing metal roofs, smooth BUR, and modified bitumen roof systems.

FEAUTES

- Proven Performance
- One Coat Application
- Rust Inhibitor
- One Component
- Cool Weather Applications

BENIFITS

- 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 4.4°C and rising.

AVAILABILITY

Contact local StonCor Middle East sales representative.

ROOF SUBSTRATES/ SURFACES APPLICATION CHART

Product Type	Product Name	BUR-Smooth	BUR-Gravel	Concrete	MB-Smooth	MB-Granule	Metal	Single Ply / SPUF / Walls
Detailing Product	Geogard LO Base Coat	3 Course	N/A	N/A	3 Course	3 Course	3 Course	N/A
	Geogard Seam Sealer (m/l)	2.4 – 5.2	N/A	N/A	2.4 – 5.2	2.4 – 5.2	2.4 – 5.2 Back brush: 4.8 – 8.0 Fasteners:±55	N/A
Reinforcement	Pro-Struct 599 (m)	100 X 1	N/A	N/A	100 X 1	100 X 1	100 X 1	N/A
Topcoat	Alumanation 301 (WFT)	1 m ² /L at 1000 µm	N/A	N/A	1 m ² /L at 1000 µm	1 m ² /L at 1000 µm	1.25 m ² /L at 1000 µm	N/A

For metal roofs where only corrosion protection is required:

Environment	Product	WFT	DFT	Theoretical Coverage Rate
Inland	Alumanation 301	425 µm	200 µm	2.35 m ² /l
Coastal & Industrial	Alumanation 301	635 µm	300 µm	1.52 m ² /l

COVERAGE RATE

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.

PACKAGING

5 litre pail, 20 litre pail

SHELF LIFE

12 months shelf life in unopened containers when properly stored.

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 the 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.

TEMPERATURE RECOMMENDATIONS

Min Ambient : 4°C

Max Ambient : 43°C

- Minimum temperatures must be rising following application
- Do not apply when dew point is within 3°C of ambient temperatures
- Do not apply when precipitation, fog or dew is imminent prior to cure of the product

SPRAY EQUIPMENT RECOMMENDATIONS

General Guidelines							
Component	Pressure	Tip Size	Flow Rate	Filters	Hose Type	WHIP	Product Temp
Single	2500 psi	0.039 – 0.049	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

CLEAN UP

- Carboline Thinner # 85

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, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.
- Not for use under continuous immersion

PHYSICAL PROPERTIES

Property	Test Method	Typical Value	
Low Temperature Flexibility	ASTM D1737	Pass ¼" mandrel @ 0°C	
Metallic Content	ASTM D2824	Min. 15%	
Salt Spray – 100 hrs	ASTM B117	No Corrosion	
Reflectance	ASTM C1549	Initial - 0.66	3 Yr. Aged - 0.49
Emittance	ASTM C1371	Initial - 0.39	3 Yr. Aged - 0.52
SRI	-	Initial - 65	3 Yr. Aged - 42

Solid Content – Volume	ASTM D6511	47%
Solids Content – Weight	ASTM D6511	61%
VOC	-	321 g/L

MAINTANANCE

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.

STORAGE CONDITIONS

- 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 15 to 21°C and must not drop below 0°C or exceed 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.

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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