



ALUMANATION® 301

Premium Reflective Fibered Aluminium Coating

DESCRIPTION

This premium grade metallic pigmented, industrial maintenance coating is formulated from specially processed asphaltic liquids, non-drying oils, a proprietary blend of natural and synthetic fibres, and aluminium pigment. Alumanation 301 reflects heat, prevents corrosion, and protects against mild acid and alkali fumes on a variety of substrates, including metal, transite, built-up roofing, and modified bitumen.

BASIC USES

Alumanation 301 is a metallic pigmented coating used for the rustproofing and weatherproofing of metal roofs, sidewalls and tank (exterior), and as a reflective coating for BUR and modified bitumen roof systems.

FEATURES & BENEFITS

The one-coat application without a primer makes it a very inexpensive and user-friendly product. Alumanation 301's aluminium finish is highly reflective; protecting the roof from harmful UV as well as keeping building cooling costs to a minimum. Alumanation 301 is a solvent-based product that can be applied in colder temperatures than its water-based counterparts.

PACKAGING

18.9 L Pail

COVERAGE

Metal – 7.6L per 100 Sq.ft.
Smooth Built-Up/Modified Bitumen Roofing – 9.5L per 100 Sq.ft.

The surface dictates the actual coverage. The amounts shown are intended as minimum application information. Over corrugated and irregular metal surfaces, allow for additional surface area by multiplying square feet by 1.15 minimum.

DIRECTIONS FOR USE

PREPARATION

General: Remove all debris, dust and dirt with a stiff broom or power cleaning equipment or by using high-pressure power wash (min. 2000 psi). All surfaces must be clean and dry.

If surface was previously coated, please contact Tremco Representative for surface preparation recommendations.

Metal: Rust and flaking or peeling paint shall be wire brushed, scraped, or pressure washed to ensure a sound surface. No priming is necessary because of the rust inhibiting oils in Alumanation 301. Seams, fasteners, and protrusions shall be repaired as needed. Refer to appropriate metal application specifications for additional information.

BUR / Modified Bitumen: Torn flashings, faulty copings, parapet walls, large blisters, and surface breaks shall be repaired using GEOGARD SEAM SEALER and PERMAFAB roofing fabric. Refer to appropriate BUR / Modified Bitumen application specification for additional information.

APPLICATION

Alumanation 301 can be applied by brush, roller, or spray gun to specified coverage rates.

SPRAY EQUIPMENT RECOMMENDATION

Pumps: GRACO King 45:1, GRACO Bulldog 30:1 or gas powered equivalents. GRACO GH733, HydraMax 350 or Gmax 7900 or other manufacturers equivalents.

Hose/Pressure: 15 - 91m length (depending on spray rig pressure). When using hoses longer than 30m use the next larger hose ID every 15m. Every 15m of hose will reduce the spray pressure of the rig by 10% at the gun tip.

i.e. 91m hose – 3/4" (15/30m) to 5/8" (15/30m) to 1/2" (15/30m) to 3/8" (15m).

Good results are generally obtained @ 2000 – 3000 psi at spray tip.

Gun: GRACO Contractor Gun, GRACO Contractor FTx gun, GRACO Silver Plus or equivalent. (Tip extrusions or pole guns can be used).

LIMITATIONS

- Do not apply when air surface temperature is below 4°C or when rain is imminent.
- Not recommended for use over tar surfaces, slate, tile, wood, shingles, or where water ponds.
- Do not apply over newly installed asphalt built-up roofs without allowing the roof to weather a minimum of 60 – 90 days.

TIP SIZES

Fan Width (inch)	0.039	0.041	0.043	0.045	0.047	0.049
10-12	539	541	543	545	547	549
12-14	639	641	643	645	647	649
14-16	739	741	743		747	749
16-18	839	841	843		847	
Flow Rate	1.6 gpm	1.8 gpm	1.98 gpm	2.17 gpm	2.37 gpm	2.58 gpm

*GRACO Heavy-Duty RAC Switch tips (GHDXXX)

MAINTENANCE

It is recommended that the coating application be checked on a regular schedule with additional inspections after the system has been exposed to severe conditions. Re-coating or small area touch up can be made at any time by following recommended application procedures.

WARRANTY

Tremco CPG APAC products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG APAC written instructions and (b) in any application recommended by Tremco CPG APAC, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct. Tremco CPG APAC reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

PROPERTY	REQUIREMENTS	TYPICAL VALUES
Specific Gravity	ASTM D562	1.00 ± 0.2
Solids (% by Weight)		61% ± 1%
Solids (% by Volume)		47% ± 1%
Viscosity		126 ± 2 K.U.
Metallic Content	ASTM D2824	Minimum 15%
Flexibility @ 32°F	ASTM D1737	Passes ¼" diameter mandrel bend
Dry Time	ASTM D1640	24 hours
Flashpoint	ASTM D3278	105 °F (40 °C)
Reflectance	ASTM C1549-02	> 60
Clean Up		Mineral spirits

FOR METAL ROOF WHERE ONLY CORROSION PROTECTION IS REQUIRED:

ENVIRONMENT	WET FILM THICKNESS, μm	DRY FILM THICKNESS, μm	CONSUMPTION
Urban or light industrial environments with moderate SO ₂ levels	425	200	0.425 ltr/m ²
Medium to high corrosion environment for mostly land based structures	638	300	0.638 ltr/m ²
High to severe corrosion environment in the land-based and coastal structures	800	375	0.8 ltr/m ²

FOR APPLICATION TO TORCH ON MEMBRANE

ENVIRONMENT	WET FILM THICKNESS, μm	DRY FILM THICKNESS, μm	CONSUMPTION
UV Protection only	425	200	0.425 ltr/m ²
Waterproofing over torch on membrane	800	375	0.8 ltr/m ²

CODES AND APPROVALS

Florida Building Code



		<u>Initial Weathered</u>	
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		

CRRC
COOL ROOF RATING COUNCIL

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.

To find your local office address and contact details, visit

www.tremcocpg-asiapacific.com