

ALUMANATION® 301



A premium reflective fibered aluminum 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 fibers, and aluminum 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.

The one-coat application without a primer makes it a very inexpensive and user-friendly product. ALUMANATION 301's aluminum 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.

BASIC USES:

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

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) (13.8 MPA). All surfaces must be clean and dry.

If surface was previously coated, please contact Tremco 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 specifications for additional information.

APPLICATION:

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

Mixing: Use a low speed power drill with Jiffy Mixer attachment.

COVERAGE:

Metal 2 gal./100 sq. ft. (0.8 L/m²)

Smooth Built-Up/Modified Bitumen Roofing 2 1/2 gal./100 sq. ft. (1.0 L/m²). 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 (square meter by 0.11).

PACKAGING:

#301550 – 55 (208 L) gallon drum

#301050 – 5 (18.9 L) gallon pail

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: 50 –300 (15-90 m) length (depending on spray rig pressure). When using hoses longer than 100 (30 m) use the next larger hose ID every 50 (15 m). Every 50 (15 m) of hose will reduce the spray pressure of the rig by 10% at the gun tip.

ALUMANATION® 301

SPRAY EQUIPMENT RECOMMENDATION

(continued):

i.e. 300 (90 m) hose – 3/4" (19 mm) (50/100) to 5/8" (16 mm) (50/100) to 1/2" (12.7 mm) (50/100) to 3/8" (9.5 mm) (50)
Good results are generally obtained @ 2000–3000 psi (13.8 - 20.7 MPa) at spray tip.

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

Tip Sizes:

FAN WIDTH (IN/MM)	.039/.991	.041/1.041	.043 /1.092	.045 /1.143	.047 /1.194	.049/1.245
10"–12" (254-305)	539	541	543	545	547	549
12"–14" (305-356)	639	641	643	645	647	649
14"–16" (356-406)	739	741	743		747	749
16"–18" (406-459)	839	841	843		847	
Flow Rate	1.60gpm	1.80gpm	1.98gpm	2.17gpm	2.37gpm	2.58gpm

• Graco Heavy - Duty RAC Switch tips (GHDXXX)

LIMITATIONS:

- Do not apply when air surface temperature is below 40°F (4.4°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 60-90 days.

MAINTENANCE:

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

TECHNICAL SERVICES:

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service Staff.

PHYSICAL PROPERTIES:

Property	Test Method	Typical Value
Weight per Gallon (Liter)	ASTM D 1475	8.8 ± 0.2 lbs. (1.1 kg)
Specific Gravity	ASTM D 562	1.00 ± 0.2
Solids (% by Weight)		61% ± 1%
Solids (% by Volume)		47% ± 1%
Viscosity		126 ± 2 K.U. (15.7 mPas)
Metallic Content	ASTM D 2824	Min. 15%
Flexibility @ 32°F (0°C)	ASTM D 1737	Passes 1/4" (6.35 mm) diameter mandrel bend
Dry Time	ASTM D 1640	24 hours
Flashpoint	ASTM D 3278	105°F (40.5°C)
Reflectance	ASTM C 1549	-02 >60
Clean Up		Mineral spirits

COVERAGE

Metal	2 gal./100 sq. ft. (0.8 L/m ²)
Smooth Built-Up/Modified Bitumen Roofing	2 1/2 gal./100 sq. ft. (1.0 L/m ²)

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.



D-301
10/17/18

www.tremcoroofing.com
3735 Green Road
Beachwood, Ohio 44122
1.800.852.6013



50 Beth Neilson Drive
Toronto, Ontario M4H 1M6
1.800.668.9879

ALUMANATION is a U.S. registered trademark of Tremco Incorporated..

The information provided on this data sheet is effective as of February 2018 and supersedes all previous data concerning this product and its application.

The Statements provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, Tremco DOES NOT MAKE NOR DOES IT AUTHORIZE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE, OR ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THIS MATERIAL EXCEPT THAT IT CONFORMS TO TREMCO'S PRODUCT SAMPLE. Buyer and user accept the product under those conditions and assume the risk of any failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not it is handled, stored, used in accordance with directions or specifications. UNDER NO CIRCUMSTANCES SHALL TREMCO BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY. IN ALL CASES, TREMCO'S LIABILITY IS LIMITED, AT TREMCO'S OPTION, TO THE REPLACEMENT OF GOODS, OR THEIR VALUE, PROVEN TO BE DEFECTIVE IN MANUFACTURING.