

PRODUCT IDENTIFICATION

ALUMANATION® 301

#301550 – 55 gallon drum

#301050 – 5 gallon pail

PREMIUM REFLECTIVE FIBERED ALUMINUM COATING

Description

This premium grade 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.

Uses

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

Advantages

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. Its high chemical resistance allows ALUMANATION 301 to

be used in environments where exposure to mild acids, alkalis, and other destructive elements are common. ALUMANATION 301 is a solvent-based product that can be applied in colder temperatures than its water-based counterparts.

Limitations

Do not apply when air surface temperature is below 40°F 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.

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 the Republic Technical Department 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 application specifications M-1 and M-6 for additional information.

Built-Up Roofing: Torn flashings, faulty copings, parapet walls, large blisters, and surface breaks shall be repaired using GEOGARD SEAM SEALER and PERMAFAB roofing fabric. Refer to application specifications BUR-5 and BUR-7 for additional information.

TECHNICAL DATA

Weight per Gallon (ASTM D 1475)	8.8 ± 0.2 lbs.
Specific Gravity (ASTM D 562)	1.00 ± 0.2
Solids (% by Weight)	61% ± 1%
Solids (% by Volume)	47% ± 1%
Viscosity	126 ± 2 K.U.
Metallic Content (ASTM D 2824)	Min. 15%
Flexibility @ 32°F (ASTM D 1737)	Passes 1/4" diameter mandrel bend
Dry Time (ASTM D 1640)	24 hours
Flashpoint (ASTM D 3278)	105°F
Reflectivity	>60%
Clean Up	Mineral spirits

COVERAGE

Metal	2 gal./100 sq. ft.
Smooth Built-Up/Modified Bitumen Roofing	2 1/2 gal./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.


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

i.e. 300' hose - 3/8" (50/100') to 5/8" (50/100') to 1/2" (50/100') to 3/8" (50')

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)

Tip Sizes:

Fan Width (in)	.039	.041	.043	.045	.047	.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	1.60 gpm	1.80 gpm	1.98 gpm	2.17 gpm	2.37 gpm	2.58 gpm

•Graco Heavy - Duty RAC Switch tips (GHDXXX) Grey

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. Recoating or small area touch up can be made at any time by following recommended application procedures.

Technical Services

Technical advice or service on suitability of material for specific application and end-use requirements is available from the manufacturer. Refer to label and Material Safety Data Sheet (MSDS) for precautionary information.



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Member of Cool Roof Rating Council



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