



ALUMANATION 301

Product Data Sheet

PRODUCT IDENTIFICATION

ALUMANATION 301
#301550 – 55 gallon drum
#301050 – 5 gallon pail

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, concrete, transite, built-up roofing and modified bitumen.

USES

ALUMANATION 301 is used for the rustproofing and weatherproofing of metal roofs, sidewalls, tanks, bridges, structural steel, electrical transmission towers, piping, guard rails, etc.

ADVANTAGES

ALUMANATION 301, is a solvent-based product that can be applied in colder temperatures than its water-based counterparts. The one-coat application 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 acids, alkalis, and other destructive elements are common.

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 continuously ponds. Do not apply over newly installed asphalt built-up roofs without allowing the roof to cure a minimum 90 days.

TECHNICAL DATA

Weight per gallon (ASTM D1475)	8.8 ± 0.2 lbs.
Specific gravity (ASTM D-1475)	1.06 ± 0.2
Solids by Weight (ASTM D-1353)	61% ± 1%
Solids by Volume	47% ± 1%
Flexibility @ 32°F (ASTM D-1737)	passes ¼" diameter mandrel bend
Dry Time (ASTM D 1640)	24 hours
Flashpoint (ASTM D-3278)	None
Clean up	Mineral spirits

COVERAGE

Metal	2 gal./ 100 sq.ft.
Smooth Built-Up Roofing	2 ½ gal./ 100 sq. ft.
Concrete	2 ½ gal./ 100 sq.ft.
Asphalt/Gravel Built-Up Roofing	3 ½ 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.

PREPARATION

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

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 ALUMANATION specification for warranty requirements.

Built-Up Roofing: Torn flashings, faulty copings, parapet walls, large blisters, and surface breaks shall be repaired using GEOGARD SEAM SEALER or NEOPRENE PATCHING CEMENT and roofing fabric. Where necessary, first apply PERMAPRIMER™ at 1 gal./ 100 sq. ft. to older, dried out, porous roof surfaces to revitalize and ensure adhesion.

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APPLICATION

Apply ALUMANATION 301 by brush, roller or spray.

Spray Equipment Recommendations: Airless or conventional spray methods. Examples of airless equipment are GRACO 45:1 King, GRACO 30:1 Bulldog, GRACO GH533 and GH733 (gas powered) or equivalents. Airless spray tip recommendation would be a reversible self-cleaning tip 0.043" to 0.055" with a fan angle of 40° to 50°. Examples of conventional pumps would be an Alemite 11:1 with a standard 1/8" tip opening or GRACO 10:1 President model.

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 a 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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