

Alumination 301

Premium Grade Metallic Pigmented, Industrial Maintenance Coating

PRODUCT DESCRIPTION

Alumination 301 reflects heat, prevents corrosion, and protects against mild acid and alkali fumes on a variety of substrates, including metal, concrete, fibre cement, built-up roofing and modified bitumen. This premium grade industrial maintenance coating is formulated from specially processed asphaltic liquids, non-drying oils, a proprietary blend of natural and synthetic fibres and aluminium pigment. Alumination 301, being solvent based, can be applied in colder temperatures than its water based counterparts. The one coat application makes it a very economical and easy to use product. Alumination 301's aluminium 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 Alumination 301 to be used in environments where exposure to acids, alkalis, and other destructive elements is common.

USAGE/PURPOSE

Alumination 301 is used for the rustproofing and weatherproofing of:

- Metal Roofs
- Sidewalls
- Tanks (exterior)
- Bridges
- Structural steel
- Piping
- Guard Rails
- Electrical Transmission Towers
- Reflective Coating for BUR and Modified Bitumen Roof Systems

FEATURES & BENEFITS

- Single coat application
- Protects against rust
- Heat reflective finish
- Chemical resistant
- High content of aluminium pigment
- No priming on metal surfaces

PACKAGING

18.9L Pail

COLOUR

Silver

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location.



LIMITATIONS

- Do not apply to damp surfaces.
- Use with adequate ventilation.
- 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.

SPECIFICATION CLAUSE

The rustproofing/weatherproofing coating is specified as Alumination 301, a premium grade industrial maintenance coating, formulated from specially processed asphaltic liquids, non-drying oils, a proprietary blend of natural and synthetic fibres, and aluminium pigment.

SUBSTRATE PREPARATION

1. Remove all debris, dust, and dirt with a stiff broom or power cleaning equipment or by using high-pressure power wash (min. 2000 psi).
2. All surfaces must be sound, clean and dry.
3. If surface was previously coated, please contact Tremco for surface preparation recommendations.
 - a. **Metal:** Rust and flaking or peeling paint shall be wire brushed, scraped, or pressure washed to ensure a sound surface.
 - i. No priming is necessary because of the rust inhibiting oils in Alumination 301.
 - ii. Seams, fasteners, and protrusions shall be repaired as needed. Refer to appropriate metal application specifications for additional information.
 - b. **BUR / Modified Bitumen:** Torn flashings, faulty copings, parapet walls, large blisters, and surface breaks shall be repaired using Vulkem 45 SSL or Polyroof and Perm-A-Fab reinforcing fabric.

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | TEST METHOD | ALUMINATION 301 |
|-----------------------------|-------------|------------------------------|
| Type | N/A | Asphaltic Industrial Coating |
| Physical State | N/A | Liquid |
| % Solids | By Volume | 47% |
| % Solids | By Weight | 61% |
| Flashpoint | ASTM D3278 | 40°C |
| Flexibility @ 0°C | ASTM D1737 | Passes 6.35mm mandrel |
| Viscosity | N/A | 126+/- 2K.U |
| Metallic Content | ASTM D2824 | Min. 15% |
| Reflectance | ASTM C1549 | >60 |
| Drying Time @ 25°C, 50% R.H | N/A | 24 Hours |

*Drying times will vary depending on ambient temperature and relative humidity

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JOBSITE MATERIALS

Recommended materials and their uses are as follows:

- ❑ Tremco PermAfab: 100% stitch bonded, polyester fabric that offers an unusual combination of high strength properties with good elongation for excellent resistant against thermal stress.
- ❑ Polyroof LV: A single component, bitumen-based elastomer for crucial roof area detailing.
- ❑ Vulkem 45 SSL: A single component, semi-self-leveling, moisture curing polyurethane sealant.

USAGE

The following is a theoretical guide to estimate material usage. This does not account for material wastage on-site or reduced coverage due to substrate porosity/aggregate profile:

| Substrate | Coverage Rate | | Thickness |
|---|-----------------------|---------------------------|------------|
| Smooth Built Up/ Modified Bitumen Roofing | 1.0m ² /L | 18.9m ² /Pail | 1.0mm WFT |
| Asphalt Built Up Roofing | 0.7m ² /L | 13.23m ² /Pail | 1.40mm WFT |
| *Metal | 1.25m ² /L | 23.62m ² /Pail | 0.8mm WFT |

*All coverage rates are approximate & vary with substrate condition.

METHOD OF APPLICATION

Apply Alumination 301 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 350or GMax 7900 or other manufacturers' equivalents.
- ❑ Hose/Pressure: 15 - 91 metre length (depending on spray rig pressure). When using hoses longer than 30 metres, use the next large hose ID every 15 metres. Every 15 metre of hose will reduce the spray pressure of the rig by 10% at the gun tip
- ❑ Guns: Graco Contractor Gun, Grace Contractor FTx gun, Graco Silver Plus or equivalent. (Tip extrusions or pole guns can be used.)

Tip Sizes:

| Fan Width | .039 | .041 | .043 | .045 | .047 | .049 |
|-----------|---------|---------|----------|---------|----------|----------|
| 254-304 | 539 | 541 | 543 | 545 | 547 | 549 |
| 304-355 | 639 | 641 | 643 | 645 | 647 | 649 |
| 355-406 | 739 | 741 | 743 | | 747 | 749 |
| 406-457 | 839 | 841 | 843 | | 847 | |
| Flow Rate | 6.0 LPM | 6.8 LPM | 7.48 LPM | 8.2 LPM | 8.95 LPM | 9.75 LPM |

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

CLEAN UP

Clean all equipment with Tremco Xylol immediately on completion of application and mixing.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

Tremco CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. Tremco CPG Australia makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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