



One Coat Aluminum

A VOC Compliant Reflective Aluminum Coating for a Variety of Weathering Surfaces

Composition: One Coat Aluminum is an asphalt-based, fibrated aluminum roof coating formulated with a blend of rust inhibiting oils. One Coat Aluminum is asbestos free and meets the VOC requirements established for metallic pigmented Architectural Coatings. One Coat Aluminum exceeds the requirements of ASTM D 2824, Type III.

Basic Uses: One Coat Aluminum is an exterior grade maintenance coating used to provide a protective and reflective weathering surface for all types of vertical and horizontal surfaces, such as asphalt emulsion coated roof surfaces, granule surfaced modified bitumen, and metal. One Coat Aluminum lowers the surface temperature of roof surfaces, while also protecting against corrosion from mild exposure to acids, alkalis, and other destructive elements.

As an Energy Star Roof Products Partner, Tremco Inc. has determined One Coat Aluminum meets the Energy Star Roof Products guidelines for energy efficiency.

Limitations:

- Not intended for surfaces where ponding water may occur.
- Do not apply over freshly applied hot asphalt, glaze coats, or coal tar pitch flood coats.
- Do not apply when air or surface temperature is below 40°F (4.5°C) or when rain is imminent.

Packaging: One Coat Aluminum is available in 5

gallon (18.9 L), 55 gallon (208 L) and 53 gallon (200L) plastic lined drums.

Grade: Brush/roller/ spray

Storage: Storage life is 1 year in unopened containers. Store at temperatures below 110°F (43° C).

RECOMMENDED MIXING/SPRAY EQUIPMENT

Mixing Equipment: For barrels, use a low speed, long paddle blade mixer such as the 600 Series Drum Mixer from Garlock. For 5 gallon pails, use a Jiffy Mixer attached to a low speed power drill. Propeller type mixers do not mix and turn the material effectively and are not recommended.

Pump: Minimum 2000 psi material output pressure (pneumatic or hydraulic). Output flow rate for the pump should be a minimum of 2.0 GPM (gallons per minute) for efficient production rates.

Spray Tip/ Material Hose: Reversible spray tip with a 0.043" to 0.055" orifice and a 40 to 60 degree spray fan. Material spray hose must be properly rated for the maximum working pressure of the pump being used.

APPLICATION DATA:


Preparation: Surface must be clean, dry, and free of dust, dirt, oil, and other contaminants. One Coat Aluminum is self priming. The use of an asphalt primer is not recommended.

When used as a maintenance coating, aged, chalked, and dirty surfaces must be power washed (2000 psi min.) prior to application of One Coat Aluminum. Deteriorated built-up roof surfaces must be properly restored with Tremlastic or other asphalt emulsion prior to the application of One Coat Aluminum.

For metal surfaces, rust and loose paint must be wire brushed, scraped, or pressure washed down to a sound surface. Priming metal surfaces is not required.

Allow for a minimum 30 day cure period prior to the application of One Coat Aluminum over freshly



Product Advantages	
Features	Benefits
VOC compliant	• Reduced environmental impact
Reflective metallic pigment 	• Lower surface temperatures • Increased roof life • Helps reduce cooling costs
Exceptional weatherability	• Long life • Increases intervals between recoats
Single coat	• Reduced labor costs
Versatile	• Acceptable for use on many substrates
High Build	• Long-lasting reflective protection

applied asphalt emulsions. Where One Coat Aluminum is part of a Tremco Roof System, refer to project specifications and procedures.

Application: Mix each container thoroughly prior to application using a mechanical mixer. Apply One Coat Aluminum by brush, roller, or spray. If spray applied, take necessary precaution to prevent overspray. Following spray application, brush or broom the applied coating to assure even coverage. Optimum reflectance is achieved by mechanical mixing and spray application to achieve proper leafing of the aluminum pigment.

Coverage Rate: Smooth asphalt emulsion or granule surfaced modified bitumen: 2-1/2 to 3 gallons per SQ (1.0 to 1.2 L/m²) maximum. Metal surfaces: 2 gallons per SQ (0.8 L/m²). Coverage will vary based on texture and porosity of surface.

Clean Up: Clean equipment with Mineral Spirits.

Precautions: Use One Coat Aluminum with adequate ventilation. Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

Availability and Cost: Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

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.

The solar reflectance of this product may decrease over time. Roofs should be properly examined at regular intervals and maintained or cleaned when necessary and appropriate to assure maximum reflectance.

Guarantee/Warranty: Tremco, Inc. warrants One Coat Aluminum to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any product that is proved to be defective when applied in accordance with our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied

Physical Performance Characteristics		
One Coat Aluminum		
Property	Typical Value	Test Method
Asbestos Content	None	EPA 600/R-13/116
VOC	409 g/L	ASTM D 3960-02
Density @ 77°F (25°C)	8.8 lbs/gal (1054 kg/m ³)	ASTM D 1475-98
Non volatile content	61%	ASTM D 1353-96
Reflectance	65%	ASTM C 1549-02
Metallic Aluminum, minimum	15%	ASTM D 2824-02
Flexibility (1/4" mandrel, 32°F (0°C))	Pass	ASTM D 522-93A

warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

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