

One-Coat Aluminum FR

A Fire-Rated Aluminum Roof Surfacing

Composition: One-Coat Aluminum FR is a fire-rated, 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 by the US EPA for metallic pigmented Architectural Coatings. One-Coat Aluminum exceeds the requirements of ASTM D 2824, Type III.

Basic Uses: One-Coat Aluminum FR provides a UL Class A protective and reflective weathering surface for built-up and modified bitumen roof systems. One-Coat Aluminum FR can also be used as a maintenance coating on metal roof panels and smooth asphalt roof systems. One-Coat Aluminum FR lowers the surface temperature of roof surfaces, while also protecting against corrosion from mild exposure to acids, alkalis, and other destructive elements.

Limitations:

- Not intended for surfaces where ponding water may occur.
- Do not apply over hot asphalt glaze coats coats.
- Do not apply when air or surface temperature is below 4.5°C (40°F) or when rain is expected within 6 hours.
- Not intended for application over roof systems constructed using BURmastic LV, PowerPly Standard Cold Adhesive LV, Powerply Rubberized Cold Adhesive and Rubberized BURmastic as the interply adhesive.
- Not intended for application over coal tar roof systems.
- Not intended for application over freshly applied asphalt mastics. Allow mastic to cure 30 days minimum.

- Do not exceed recommended coverage rates or darkening of One Coat Aluminum FR may occur. Spread out all overspray and coating puddles to avoid darkening in areas.

Packaging: One-Coat Aluminum FR is available in 18.9 L (5 gallon), 208 L (55 gallon) and 200L (53 gallon) plastic lined drums.

Grade: Brush/roller/ spray

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

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 or Hennis Johnson Equipment Company. 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:

Surface Preparation: All surfaces must be clean, dry, and free of dust, dirt, oil, and other contaminants just prior to application. Deteriorated asphalt membranes must be repaired and allowed to cure for a minimum 30 days. For metal surfaces, rust and loose paint must be wire brushed, scraped, or pressure washed (2000 psi) to a sound surface. One Coat Aluminum FR is self priming. The use of asphalt primer is not recommended, and will lead to bronzing or darkening of the cured coating finish.

Cold Process BUR and MB surfaces must cure 30 days minimum prior to application of One Coat Aluminum FR. All accumulations of membrane interply adhesive on the membrane surface must be wiped and removed from the surface to assure proper performance of One Coat Aluminum FR. Roof mastic must cure 30 days minimum prior to coating application.

Hot applied asphalt glaze coats are not recommended as an acceptable surface for One Coat Aluminum FR, since glaze coats may flow and crack. One Coat Aluminum FR is recommended for application direct to roofing ply sheets and modified bitumen felts for hot

Product Advantages	
Features	Benefits
VOC compliant	<ul style="list-style-type: none"> • Reduced environmental impact
Reflective metallic pigment	<ul style="list-style-type: none"> • Lower surface temperatures • Increased roof life • Lower energy costs
Exceptional weatherability	<ul style="list-style-type: none"> • Long life • Increases intervals between recoats
Single coat	<ul style="list-style-type: none"> • Reduced labor costs
Versatile	<ul style="list-style-type: none"> • Acceptable for use on many substrates
High Build	<ul style="list-style-type: none"> • Long-lasting reflective protection
UL Classified	<ul style="list-style-type: none"> • Fire protection



Roofing & Weatherproofing Peace of Mind™

applied BUR and MB systems. Allow hot applied BUR and MB roof systems to weather 14 days minimum prior to application of One Coat Aluminum FR. Properly prepare roof surface just prior to application as described above.

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

Following spray application, brush or broom the applied coating to assure even coverage. Make sure all overspray and puddles of One Coat Aluminum FR are properly brushed out, since the coating surface will bronze or darken in areas of excess coverage.

Coverage Rate:

Smooth asphalt built-up roof surfaces and modified bitumen membrane surfaces: 1.0 to 1.2 L/m² (2-1/2 to 3 gallons per SQ) maximum.

Metal surfaces: 0.8 L/m² (2 gallons per SQ). Coverage will vary based on texture and porosity of surface.

Clean Up: Clean equipment with Mineral Spirits.

Precautions: Use One-Coat Aluminum FR 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 416/421-3300 or 800/263-6046 or in the U.S. at 216/292-5000 or 800/852-6013.

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.

Guarantee/Warranty:

Tremco, Inc. warrants One-Coat Aluminum FR 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 warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Physical Performance Characteristics

One-Coat Aluminum FR

Property	Typical Value	Test Method
Asbestos Content	None	EPA 600/R-13/116
VOC	409 g/L	ASTM D 3960-93
Density @ 25°C (77°F)	1054 kg/m ³ (8.8 lbs/gal)	ASTM D 1475-90
Non volatile content	61%	ASTM D 1353-92
Reflectance (45° directional)	60%	ASTM E 1347-90
Flexibility (1/4" mandrel, 0°C (32°F))	Pass	ASTM D 522-93A

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 weather-proofing 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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