



FireShield® MB Roof Coating

Product Data Sheet | Formerly TOPCOAT® FireShield® MB

PRODUCT DESCRIPTION

United Coatings™ FireShield® MB Roof Coating is a water-based, 100% acrylic coating that cures to form a seamless rubber membrane. FireShield® MB Roof Coating will maintain or may improve UL rating on select roofing systems or assemblies.* FireShield® MB Roof Coating is designed to enhance your roof system's protective performance by providing unique fire-extinguishing properties. Special fire-resistant ingredients in the product react with heat and fire, causing a chemical reaction to occur. A non-combustible carbon char layer is formed that retards flame propagation by reducing available oxygen. FireShield® MB Roof Coating (white only) is listed by the Cool Roof Rating Council for solar reflectance and thermal emittance. Its high reflectivity and thermal emittance will help to reduce heat gain to preserve the roof substrate, lower interior temperatures, and reduce cooling costs. Sprayable, seamless FireShield® systems install fast without the tear-off, staging, and disposal associated with traditional systems.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

5 gallon (18.9 liter) pail
55 gallon (208 liter) drum

Shelf life 12 months if unopened containers stored between 50°F and 80°F. Protect from freezing.

BASIC USES

United Coatings™ FireShield® MB Roof Coating is designed to restore BUR, modified bitumen, Hypalon®, TPO, EPDM, metal, wood, and concrete. FireShield® MB Roof Coating is formulated to provide maximum fire protection, increase a roof's reflectivity, and protect the roof substrate from harmful ultraviolet rays. It is highly flexible to accommodate temperature-related expansion and contraction of the roof system, a leading cause of roof system failure. For proper installation, substrate must have positive drainage (i.e., shall not pond water for a period longer than 48 hours). Surface must be free of ponding water, ice, snow, and debris prior to application. Do not apply at temperatures below 42°F. Substrate temperatures must be below 120°F when applying product.

Advantages

- FireShield® MB Roof Coating is highly reflective
- FireShield® MB Roof Coating (white only) is listed by the Cool Roof Rating Council for solar reflectance and thermal emittance
- Ideal for modified bitumen, Hypalon®, BUR, metal, TPO, wood, concrete, and EPDM
- Designed to be applied at temperatures as low as 42°F
- Strong; forms a flexible seal that will not become brittle
- Flexible; will expand and contract with roof

PHYSICAL PROPERTIES

FIRESHIELD® MB ROOF COATING	
Application Rate:	1.0 to 1.75 gallons/100 sq. ft. per coat
Application Method:	Airless sprayer, roller, or brush
Application Temp (air, surface):	42° - 120°F
Drying Time (75°F, 50% RH):	Approximately 24 hours per coat
Total Solids (by weight):	67% ± 2%
Total Solids (by volume):	55% ± 2%

Wet Mil Thickness:	(1.0 Gallon/100SF) - 16 wet mils
Dry Mil Thickness:	(1.0 Gallon/100SF) - 8 dry mils
Specific Gravity:	1.34 ± 0.1
Weight per Gallon:	12.2 ± 0.5 lbs.
Viscosity (75°F)	15,000 ± 2,000 cps
Tensile Strength	100 psi ± 10%
Elongation	275%
Solar Reflectivity	0.72 initial, 0.69 aged (white only)
Thermal Emittance	0.91 initial, 0.90 aged (white only)
SRI	89 initial, 85 aged (white only)



APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION: Roof must have positive drainage with no moisture trapped in the roof membrane. For non-metal roofs, GAF requires a moisture scan be performed by an independent source prior to issuance of a GAF guarantee. Roof substrate must be clean, completely dry, and free from any foreign matter. Pressure wash to remove all dust and debris, and allow to dry. Examine substrate to receive new roofing and conduct test patches to verify adhesion of coating prior to start of work. Check for any damaged roof membranes including all flashings and penetrations and repair as needed.

MIXING: FireShield® MB Roof Coating is a ready-to-use material; however, some settling of material may have occurred during shipment and storage. Mix prior to use with a ¾ horsepower or larger mixer with a blade capable of uniformly mixing the entire container. For 5-gallon (19 liter)

pails, use 3" (76 mm) minimum diameter mixing blades. For 55-gallon (208 liter) drums, use 6" (151 mm) minimum diameter mixing blades.

APPLICATION: Apply when temperatures are above 45°F (5.5°C). Apply product with a roller, roofing brush, or sprayer, covering the surface at an even rate. For spray application, use an airless spray pump with a minimum 2 gallons-per-minute (7.6 L/min) output and a minimum 3,000 psi (20,685 kPa) pressure capability. Use a reversible, self-cleaning tip with an orifice size of .033" (.84 mm). Allow each coat to fully dry before applying next coat. Each coat shall be applied in a direction perpendicular to the previous coat. Apply at a rate of 1.0 - 1.75 gal/100 sq. ft. (3.8 - 6.6 liter/9.3 m2) per coat. Total gallons (liters) per square depends on roof surface and specifications. Granular and coarse surfaces will require more coating than smooth

GAF Liquid-Applied

January 2016, supercedes April 2014

For technical, system, and warranty information, visit gaf.com or call 1-800-766-3411.

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APPLICATION INSTRUCTIONS, CONT'D.

surfaces to achieve desired dry mil thickness.

For Application Questions: Contact GAF Technical Services at 1-800-766-3411 or visit gaf.com.

Applicable Standards: ASTM D412, ASTM D2196, ASTM D1475, ASTM E1644

Note: Repair leaks promptly to avoid adverse effects, including mold growth.

*Provided the roofing system or assembly is UL Listed.

LIMITATIONS & PRECAUTIONS

Store in well-ventilated area at 50°F to 80°F; protect from freezing.

SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to OSHA guidelines and product Safety Data Sheet (SDS).

CLEAN UP

Clean-Up: Mineral spirits

GAF

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