



Roof Mate Coating

Product Data Sheet



PRODUCT DESCRIPTION

Roof Mate Coating is a water-based elastomeric coating utilizing the latest advances in acrylic technology. Premium quality acrylic resins are combined with an effective biocide package and non-migrating fire retardants, resulting in superior durability, weatherproofing, ultraviolet resistance, algae/mildew resistance and fire retardancy. **Roof Mate Coating** is a highly reflective, permanently flexible "breathing" coating, allowing moisture vapor from the substrate or building interior to escape while remaining impervious to mass water penetration from the exterior.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

- 1 gallon (3.8 liter) bucket
- 5 gallon (19 liter) pail
- 54 gallon (204 liter) drum

Shelf life 24 months if unopened containers stored between 40°F and 70°F (4°C - 21°C).

BASIC USES & GENERAL INFORMATION

Roof Mate Coating was especially developed for extending the life of metal, conventional built-up, modified bitumen, concrete, Hypalon, EPDM, and TPO roofs. **Roof Mate Coating** forms a waterproof elastomeric seal, uniformly covering the textured profile of various substrates to form a monolithic coating, providing protection from normal weathering, aging and ultraviolet exposure. It is also effective in sealing and encapsulating galvanized metal roofs, preventing residual zinc run-off.

Roof Mate Coating is available in standard White, Tan, Light Tan and Solar Gray colors, which are certified to meet ENERGY STAR®, Cool Roof Rating Council (CRRC) and LEED reflectance and emissivity criteria. White and

Light Tan also meet California Title 24 requirements.

If a faster drying white topcoat is desired, **Roof Mate Coating** is available in a Quick-Set version (**Roof Mate Coating QS**). The QS formulation provides a more rapid skin-over time than standard **Roof Mate Coating**, which helps to prevent wash-off from a light rain or dew in 30 to 60 minutes, depending upon ambient temperature & humidity. **Roof Mate Coating** is also available in a High-Tensile version (**Roof Mate Coating HT**), which provides approximately twice the tensile strength, tear strength and elongation properties for roof areas subject to heavy maintenance traffic, severe weather conditions, chemical fallout, etc.

PERFORMANCE PROPERTIES

ROOF MATE COATING	
Solids by Weight	66% (±2) [ASTM D1644]
Solids by Volume	53% (±2) [ASTM D2697]
Weight per Gallon	11.8 lbs. (±0.2) (1.41 kg/l) [ASTM D1475]
Ultimate Tensile Strength	284 psi (±20) (1.95 MPa) @ 75°F (24°C) [ASTM D2370]
Elongation at Break	258% (±30) @ 75°F (24°C) [ASTM D2370] *Roof Mate Coating is unique in that it maintains its elongation values at freezing temperatures, as well as after extended weathering.
Hardness	55-65 Shore A [ASTM D2240]
Permeance	5.7 U.S. perms (3.76 metric perms) @ 20 mils (508 microns) [ASTM D1653]
Bond Strength	Exceeds cohesive strength of coating [ASTM C297]

VOC	<50 g/L
Dry Time for Water Resistance:*	3 hours @ 70°F (21°C), 50% R.H. White @ 16 wet mils (406 microns) *Required time will increase at higher humidity and/or lower temperatures
Ultraviolet Resistance	No deleterious effects after 5,000 hours [ASTM D822, ASTM G23]
Weather Resistance	No deleterious effects after 5,000 hours [ASTM D822, ASTM G23]
High Temperature Stability	No age hardening up to 250°F (121°C) [ASTM D794]
Resistance to Wind Driven Rain	0.3% moisture result [Federal Specification TTC-555B]
Surface Temperature Limits for Service Conditions	-30°F to 180°F (-35°C to 82°C)

ADVANTAGES & BENEFITS

The Following Advantages Combine To Make **Roof Mate Coating** The Most Effective, Low-Cost Method Of Extending The Life Of New Or Existing Roof Surfaces.

Low Cost Application: **Roof Mate Coating** can be installed more efficiently and at a fraction of the cost of other roofing systems. No bulky or expensive materials to haul, lift, spread, cut or glue. Simply apply **Roof Mate Coating** by brush, roller or spray over the properly prepared roof substrate. Cleanup requires only soap and water. **Roof Mate Coating** conforms to all federal and state air pollution standards and VOC regulations.

Fast Application: Roofs can be prepared and coated with **Roof Mate Coating** significantly faster than applying conventional built-up or single-ply systems.

High Solids and Resin Content: The volume solids of **Roof Mate Coating**, along with its excellent hide and vertical hold characteristics, allows for faster film build in fewer coats. This enables **Roof Mate Coating** to uni-

GAF Liquid-Applied

January 2016, supercedes May 2014

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

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APPROVALS	
ASTM D-6083	Tested and approved
California Title 24	Meets all Title 24 requirements
CRRC (Cool Roof Rating Council) coolroofs.org	Roof Mate White Initial Solar Reflectance 0.83 Initial Thermal Emittance 0.92 Initial SRI 105 Product ID 0614-0004a
	Roof Mate Light Tan Initial Solar Reflectance 0.71 Initial Thermal Emittance 0.93 Initial SRI 88 Product ID 0614-0016a
Department of Energy, ENERGY STAR®	White Top Coat Approved
UL 790 Class A	Classified as a Class "A" Fluid Applied Coating System and as a Class A, B or C Maintenance & Repair System as outlined in the UL Roofing Materials & Systems Directory and UL website
FM 4470	Factory Mutual Approved for recover over FMRC-rated BUR or insulated metal panels
Miami-Dade County NOA miamidade.gov	12-0521.05 Exp 04/01/19
ICC-ES for Fluid-Applied Roofing	ICC-ES Listing ESL-1014

ADVANTAGES & BENEFITS

formly cover the uneven profile of textured substrates. The high ratio of elastomeric acrylic polymer to filler pigment provides long-term weathering and ultraviolet resistance.

Lightweight: A **Roof Mate Coating** roof is lighter than conventional and single-ply systems, putting less stress on the framework of the building. No glue, fasteners or heavy ballasting is required.

Flexibility: **Roof Mate Coating** contains no migratory plasticizers, which may give good initial elasticity but leach out of the coating upon extended exterior exposure. **Roof Mate Coating** remains flexible through the use of high grade elastomer acrylic polymers.

Low Maintenance Costs: With a **Roof Mate Coating** layer there is no asphalt to degrade, metal to corrode or seams to come apart. It is formulated to remain flexible to -30°F without cracking under stress, and is resistant to minor ponding water associated with most roofs. When maintenance is required, repairs are easily accomplished using acrylic caulk and/or additional **Roof Mate Coating**.

Resists Abusive Weather: **Roof Mate Coating** will take abusive weather conditions of all types. Ice, snow, wind-driven rain, and sand do not penetrate its tough, dense surface under normal conditions.

Fire Protection: **Roof Mate Coating** utilizes non-migratory fire retardants that become an integral and inseparable part of the coating to provide fire retardancy.

Reduced Energy Cost: **Roof Mate Coating** topcoat remains white to effectively reflect the sun's heat, unlike dark-colored roofs that retain heat and are subject to ultraviolet degradation. Roof temperatures can be reduced in excess of 50°F. Exceeds ENERGY STAR® & Cool Roof Rating Council Guidelines.

Resistance To Foot Traffic: **Roof Mate Coating's** tough finish, combined with its flexibility and bond strength characteristics, allows it to easily withstand the stresses of normal roof maintenance traffic.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION: Clean and prepare surfaces to receive coating by removing all loose and flaking particles, grease, and laitance with the use of a stiff-bristle push broom and/or pressure washing. Be sure that the substrate is dry before applying the coating. Metal, asphaltic, and single-ply systems must be primed prior to application. See gaf.com for more details.

MIXING: Thoroughly mix using a power mixer for a minimum of 5 minutes prior to application. For 5-gallon (19 L) pails, use a 3" (76 mm) minimum diameter mixing blade; for 55-gallon (208 L) drum, use a 6" (152 mm) minimum diameter blade.

APPLICATION: Apply when temperatures are above 50°F (10°C) and rising with no rain in the forecast or freezing temperatures for 24 hours. Apply product with an airless sprayer, covering the surface at an even rate. Use an airless spray pump with a 1 gallon-per-minute (3.8 L/minute) output and 2,000 psi (13,790 kPa) pressure capability. Use a reversible, self-cleaning tip with orifice size 0.027"-0.039" (0.69-0.99 mm) and a fan angle of 40° to 50°. Filter screens should be 30 mesh or larger.

Use a 3/8" (9.5 mm) minimum inside diameter, nylon high pressure-type hose for lengths up to 75 ft. (23 m) from pump. For 75 ft.-200 ft. (23-51 m), use 1/2" (12.7 mm) inside diameter hose added to pump side of existing 3/8" (9.5 mm) hose to maintain pressure and delivery. Over 200 ft. (51 m), use 5/8" to 3/4" (16 to 19 mm) inside diameter hose added to pump side of existing hose. Apply at a minimum rate of 100 ft²/gallon (2.5m²/L) per coat. Apply minimum of 2 coats. Each coat shall be applied in a direction perpendicular to the previous coat. Each coat must be dry and cured before an additional coat is applied. All surfaces must be uniformly coated and free from voids, pinholes, or blisters.

APPLICATION NOTE: Requires complete evaporation of water to cure. Cool temperatures and high humidity will slow curing.

Apply in two coats at a minimum total rate of 1-1.5 gallons per 100 ft² (.4-.6 l/m²). Consult GAF's product specifications for specific film thickness requirements to qualify for GAF's product warranty.

CLEAN UP

Thoroughly rinse application equipment with clean water.

SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to the Safety Data Sheet (SDS).

See applicable warranties and guarantees for complete coverage and restrictions.

