



Roof Mate TCM Coating

Product Data Sheet | Formerly TOPCOAT® Membrane

PRODUCT DESCRIPTION

United Coatings™ Roof Mate TCM Coating is a water-based acrylic roof coating that provides protection from weathering, aging and ultraviolet exposure. United Coatings™ Roof Mate TCM Coating meets ASTM D6083, has excellent adhesion, elongation, tensile strength in both cold and warm climates and includes biocides that provide good mildew resistance.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

5 gal (18.9 liter) pail
54 gal (204 liter) drum

Shelf life 12 months if unopened containers stored between 50°F (10°C) and 80°F (27°C).

BASIC USES & ADVANTAGES

United Coatings™ Roof Mate TCM Coating is designed for use on metal and PVC roofs, wood, copper, transite and concrete. It can also be used on TPO that has been primed with GAF TPO Red Primer.

Advantages:

- Highly reflective and listed by the Cool Roof Rating Council for solar reflectance and thermal emittance (white only)
- California Title 24 compliant

- Offers high tensile strength and elongation, and is virtually undamaged by extended exposure to solar ultraviolet energy
- Low VOC, non-flammable, and presents minimal hazard to the applicator
- Cures and becomes stronger under the sun's ultraviolet rays
- Water-based for superior protection and easy application

PHYSICAL PROPERTIES

ROOF MATE TCM COATING	
Total Solids	71% ± 3%, by weight 58% ± 2%, by volume
Specific Gravity	1.48 ± 0.06
Viscosity	19,000 ± 3,000 cps
pH	10.0 ± 1.0
Elongation	85% of original
Elongation	375% ± 25%
Tensile Strength	275 ± 25 psi
Water Permeability	5.28 perm inch (ASTM D-1653)
Freeze-Thaw Stability	Passes five (5) cycles
Low Temp Flexibility	35 mil dry film will bend 180° @ -30°F without fracturing

Application Rate	1.0 to 1.75 gallons/100 ft² per coat (minimum two coats)
Application Method	Airless sprayer, brush, or roller
Application Temperature (air, surface)	42°F-120°F
Drying Time (75°F, 50%RH)	Approximately 24 hours per coat
Colors Available	Available in white (for maximum reflectivity) and 15 standard colors (custom tinting is available upon request)

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: Roof Mate TCM 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 1-gallon per minute (3.8 l/min) output and a minimum 2,000 psi (13,790 kPa) pressure capability. Use a reversible, self-cleaning tip with an orifice size of .027" to .039" (.69 to .99 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 ft2 (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 surfaces to achieve desired dry mil thickness.

GAF Liquid-Applied

March 2015, supercedes April 2011

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

continued on back



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CRRC DATA

Reflectivity (white only)	0.85 initial, 0.68 aged
Emissivity (white only)	0.90 initial, 0.88 3 year aged
SRI (white only)	107 initial, 83 aged

LIMITATIONS & PRECAUTIONS

- DO NOT apply on wet substrates or in temperatures below 42°F (5.5°C).
- DO NOT apply if rain or freezing temperatures are in the 24 hour forecast.
- DO NOT apply on substrates that exceed 120°F (49°C).
- DO NOT allow coating to freeze.
- DO NOT heat container or attempt to thin product.

SAFETY & HANDLING

Store material in a clean and well-ventilated area at 50°F–80°F (10°C–27°C). Keep containers covered when not in use. For specific information regarding safe handling of this material, please refer to the Safety Data Sheet (SDS).

CLEAN UP

Clean equipment and overspray with water before curing. If coating has hardened, clean with mineral spirits or biodegradable turpentine solvent. Clean hands with soap and water or waterless hand cleaner.

GAF

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