

# **United Coatings™ Roof Mate Base Coat Technical Data Sheet**

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North America's Largest Roofing Manufacturer!™*



# Roof Mate™ Base Coat

Technical Data Sheet



## PRODUCT DESCRIPTION

**United Coatings™ Roof Mate™ Base Coat** is a water-based, acrylic elastomeric base coat that is part of the **Roof Mate™ Coating System**. **Roof Mate™ Base Coat** utilizes the latest advances in acrylic technology to improve adhesion of **United Coatings™ Roof Mate™ Top Coat** and to provide bleed blocking on asphalt roofs. It also builds film thickness necessary to protect the roof.

## PACKAGING & SHELF LIFE

- 1-gallon (3.8 liter) can
- 5-gallon (18.9 liter) pail
- 55-gallon (208 liter) drum

Shelf Life: 18 months from date of manufacture in unopened containers, if stored properly in a clean and well-ventilated area at 40°F – 90°F (4°C – 32.2°C). Storage outside this temperature range may shorten shelf life. Keep containers covered when not in use. Do not allow coating to freeze.

## BASIC USES & ADVANTAGES

**United Coatings™ Roof Mate™ Base Coat** is designed to be used with **United Coatings™ Roof Mate™ Top Coat** and various primers on existing metal, concrete, TPO, PVC, and most asphaltic membrane roofs.

New metal and concrete roofs should be weathered for at least 30 days. New asphaltic, TPO, and PVC roofs should be weathered for at least 90 days.

**Note:** For use on EPDM or smooth APP membranes, see [gaf.com](http://gaf.com) for more details. Do **NOT** use on gravel-surfaced roofs or shingle roofs.

### Advantages:

- **Algae protection...** Has powerful biocides for mildew resistance
- **Fire retardancy...** Designed with non-migrating fire retardants
- **Distinguishable color from United Coatings™ Roof Mate™ Top Coat** for spotting substrate not yet covered

## PHYSICAL PROPERTIES

UNITED COATINGS™ ROOF MATE™ BASE COAT	
Solids by Weight	67% (±2) [ASTM D2369]
Solids by Volume	51% (±2) [ASTM D5201]
Tensile Strength	182 psi (±20) (1.83 MPa) [ASTM D2370/D6083]
Elongation	135% (±20) [ASTM D2370/D6083]
Hardness	60 to 70 Shore A [ASTM D2240]
Permeance	2.7 US perms at 22 dry mils (155 ng/(Pa.s.m²) @ 0.51 mm) [ASTM E96]

Application Temperature (air, surface)	50°F – 105°F (10°C – 40°C)
Dry Time to Walk On	4 hours at 70°F (21°C), 50% R.H. at 16 wet mils (0.41 mm) <small>*Required times will increase at higher humidities</small>
Temperature Limits for Normal Service Conditions	0°F–200°F (-18°C–93°C)
Low-Temperature Flexibility	Passes 180° flex over ½" (12.7 mm) mandrel @ -5°F (-21°C) [Federal Test Method No.141a-6221]
Colors	Gray

## APPLICATION INSTRUCTIONS

**Substrate Preparation:** All surfaces must be clean, dry, and free of any dirt, dust, oil, surface chemicals, or other contaminants that may interfere with optimum adhesion. Any unsound areas in the roof must be repaired or replaced prior to application. Deteriorated or badly corroded metal must be replaced prior to application. Note: TPO & PVC roofs must be primed before applying **United Coatings™ Roof Mate™ Base Coat**.

**Mixing:** Thoroughly mix using a power mixer for a minimum of 5 minutes prior to application. For 5-gallon (18.9 L) pails, use a 3" (76 mm) minimum diameter mixing blade. For 55-gallon (208 L) drums, use a 6" (152 mm) minimum diameter blade.

**Application:** Apply one coat of **Roof Mate™ Base Coat** and a minimum of one coat of **United Coatings™ Roof Mate™ Top Coat** with a brush, roller, or sprayer. **Roof Mate™ Top Coat** can be applied over **Roof Mate™ Base Coat** once the base coat is dry enough to walk on. Dry times will vary based on temperature and humidity. Apply both base and top coats at a rate of 1.0 – 1.5 gallons/100 feet (4.1 – 6.1 L/10 m²). Allow each coat to dry before applying next coat. Apply each subsequent coat perpendicular

to the previous coat to ensure proper coverage. Total system should use minimum of 2.0 – 3.0 gallons /100 feet² (8.2 – 12.2 L/10 m²). Coverage rate will vary depending upon the substrate, its surface profile, and porosity. Rough substrates will require additional coating. Total finished dry film thickness must be at least 17.5 mils.

**Spray Application:** 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. For lengths up to 75 ft. (23 m) from pump, use a 3/8" (9.5 mm) minimum inside diameter, nylon high pressure-type hose. For lengths of 75 ft. – 200 ft. (23 – 61 m) from pump, 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. For lengths over 200 ft. (61 m) from pump, use 5/8" to 3/4" (16 to 19 mm) inside diameter hose added to pump side of existing hose.

GAF Liquid-Applied

December 2016, supercedes January 2016



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Page 2 of 2

## APPLICATION INSTRUCTIONS, CONT'D

**Application Note:** Requires complete evaporation of water to cure. Cool temperatures and high humidity will slow curing. Repair leaks promptly to avoid adverse effects, including mold growth.

**For Application Questions:** Contact GAF Technical Services at 1-800-766-3411 or visit [gaf.com](http://gaf.com).

**Applicable Standards:** ASTM D2369, ASTM D5201, ASTM D2370, ASTM D2240, ASTM DE96.

## LIMITATIONS & PRECAUTIONS

Do not apply on wet substrates or in temperatures below 50°F (10°C). Do not apply if rain, dew, fog, or freezing temperatures are in the 24-hour forecast. Do not apply in the late afternoon if heavy moisture condensation may appear during the night. Do not apply on substrates that exceed 105°F (40°C).

**United Coatings™ Roof Mate™ Base Coat** should generally not be used over cold storage tanks or buildings where a vapor

barrier is required. **Roof Mate™ Base Coat** will freeze and become unusable at temperatures below 32°F (0°C), or when there is a possibility of temperatures falling below 32°F (0°C) within a 24-hour period after application.

Avoid contact with eyes.

## SAFETY & HANDLING

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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[gaf.com](http://gaf.com)

*See applicable warranties and guarantees for complete coverage and restrictions.*