

ROOF MATE

THE ROOF PRESERVATION SYSTEM
Meets ASTM D6083; ENERGY STAR® & CRRC Listed

Technical Data

PRODUCT DESCRIPTION

ROOF MATE is a water-based, high solids elastomeric coating utilizing the latest advances in acrylic technology. Premium quality 100% acrylic resins are combined with reinforcing laminar pigments, an effective biocide package and non-migrating fire retardants, resulting in superior durability, weatherproofing, ultraviolet resistance, algae/mildew resistance and fire retardancy. ROOF MATE is a highly reflective, permanently flexible “breathing” membrane, allowing moisture vapor from the substrate or building interior to escape while remaining impervious to mass water penetration from the exterior. ROOF MATE is also available in a high-tensile strength version for roof areas subject to heavy maintenance traffic, severe weather conditions, chemical fallout, etc., as well as a quick set version for use on applications where a more rapid resistance to moisture is necessary.

BASIC USES

ROOF MATE was especially developed for extending the life of metal, conventional built-up, modified bitumen, concrete, Hypalon, EPDM, sprayed-in-place or board-stock insulation, or composite shingle roofs. ROOF MATE forms a waterproof elastomeric seal, uniformly covering the textured profile of various substrates to form a monolithic membrane, providing protection from normal weathering, aging and ultraviolet exposure.

COLORS

ROOF MATE 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. All other colors are custom matched by UNITED for the specific application. Color chips or samples must be furnished to UNITED for all custom colors. It is recommended that dark colors be tinted in KYMAX topcoat only.

WARRANTY

ROOF MATE warranties are available for five (5), ten (10) or fifteen (15) year periods. The warranties guarantee the installation against leaks caused by normal weathering. Refer to individual warranty documents for additional information.

TYPICAL PROPERTIES

- Solids by Weight:**
60% (±2) [ASTM D2369]
- Solids by Volume:**
54% (±2) [ASTM D5201]
- Weight per Gallon:**
11.8 lbs. (±2) (1.41 kg/l) [ASTM D1475]
- Dry Time for Water Resistance:***
3 hours @ 70°F (21°C), 50% R.H.
White @ 16 wet mils (406 microns)
*Required time will increase @ higher humidities
- Ultimate Tensile Strength:**
224 psi (±20) (1.54 MPa) @ 75°F (24°C)
[ASTM D2370]
- Elongation at Break:***
226% (±30) @ 75°F (24°C)
[ASTM D2370]
* ROOF MATE 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]
- 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]
- Bond Strength:**
Exceeds cohesive strength of coating
[ASTM C297]
- Surface Temperature Limits for Service Conditions:**
-30°F to 180°F (-35°C to 82°C)
- Code Approvals:**
UL 790 Class A, Factory Mutual Class I
and Dade County.

ADVANTAGES OF ROOF MATE

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

1. Low Cost Application:

ROOF MATE 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** by brush, roller or spray over the **properly prepared roof substrate**. Cleanup requires only soap and water. **ROOF MATE** conforms to all federal and state air pollution standards and VOC regulations.

2. Fast Application:

Roofs can be prepared and coated with **ROOF MATE** significantly faster than applying conventional built-up or single-ply systems.

3. High Solids and Resin Content:

The high volume solids of **ROOF MATE**, along with its excellent hide and vertical hold characteristics, allows for faster film build in fewer coats. This enables **ROOF MATE** to uniformly cover the uneven profile of textured substrates. The high ratio of 100% elastomeric acrylic polymer to filler pigment provides long-term weathering and ultraviolet resistance.

4. Lightweight:

A **ROOF MATE** 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.

5. Permanent Flexibility:

ROOF MATE contains no migratory plasticizers, which may give good initial elasticity but leach out of the coating upon extended exterior exposure. **ROOF MATE** remains permanently flexible through the use of high grade 100% elastomer acrylic polymers.

6. Colorfast:

The acrylic resins utilized in **ROOF MATE** crosslink under exterior exposure to lock in color and lock out dirt. The topcoat color remains true through years of weathering, while the tight, crosslinked surface effectively repels dirt.

7. Low Maintenance Costs:

With a **ROOF MATE** roof 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 impervious to minor ponding water associated with most roofs. When maintenance is required, repairs are easily accomplished using acrylic caulk and/or additional **ROOF MATE**.

8. Resists Abusive Weather:

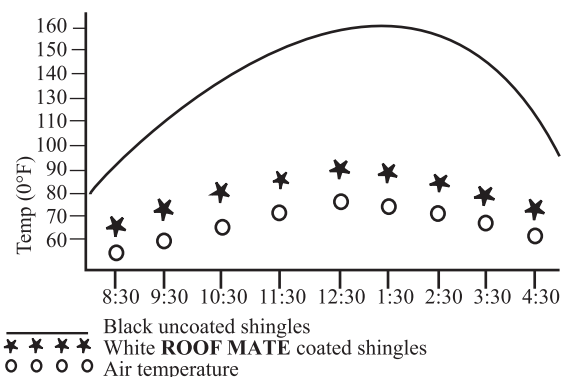
ROOF MATE will take abusive weather conditions of all types. Ice, snow, wind driven rain and sand do not penetrate its tough, dense surface under normal conditions.

9. Long Term Fire Protection:

ROOF MATE utilizes non-migratory fire retardants that become an integral and inseparable part of the coating to provide permanent fire retardancy.

10. Reduced Energy Cost:

ROOF MATE 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.



11. Resistance To Foot Traffic:

ROOF MATE'S tough finish, combined with its flexibility and bond strength characteristics, allows it to easily withstand the stresses of normal roof maintenance traffic.

12. Code Approvals:

ROOF MATE is UL 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. It is Factory Mutual Approved for recover over FMRC-rated BUR or insulated metal panels.

13. Warranty Programs:

ROOF MATE is backed by 5, 10 and 15 year, non-prorated warranty programs. These guarantee to the Building Owner that the coating system will not leak as result of degradation from normal weathering. All warranty programs are extendable to last for the life of the structure.

UNITED COATINGS

LONGEVITY BY DESIGN®
A Subsidiary of Quest Specialty Chemicals™
19011 E. Cataldo Ave. • Spokane Valley, WA 99016
(509) 926-7143 • Fax: (509) 928-1116
(800) 541-4383 • www.unitedcoatings.com



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