

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. Highest 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 **White**, **Light Gray** and **Light Tan**, which are certified to meet ENERGY STAR®, Cool Roof Rating Council (CRRC) and LEEDS reflectance criteria. An unlimited selection of custom colors are also available for specific applications. Color chips must be furnished to UNITED for all custom colors. ROOF MATE QS (Quick Set) is available for marginal conditions when a faster set time is desired with white or light colored topcoats.

WARRANTY

ROOF MATE warranties are available in 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:***
2½ hours @ 70°F (21°C), 50% R.H.
White @ 16 wet mils (406 microns)
*Required time will increase @ higher humidities
- Tensile Strength:**
250 psi (±20) (1.80 MPa) @ 75°F (24°C)
440 psi (±20) (3.17 MPa) @ 0°F (-18°C)
[ASTM D412]
- Elongation:**
300% (±30) @ 75°F (24°C)
340% (±30) @ 0°F (-18°C)
[ASTM D412]
- Hardness:**
55-65 Shore A [ASTM D2240]
- Permeance:**
3.0 U.S. perms (1.98 Metric Perm)
@ 20 mils (508 microns) [ASTM E96]
- 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]
- Temperature Limits for Service Conditions (Surface):**
-30°F to 180°F (-35°C to 82°C)
- Code Approvals:**
UL 790 Class A, Factory Mutual Class I,
ICBO 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:

Fewer men can do the work that used to require many, 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** using a brush, roller or spray over the **properly prepared roof substrate**. Water cleanup further simplifies the job, which also conforms to all federal and state air pollution standards and VOC regulations.

2. Fast Application:

Roofs protected with **ROOF MATE** can be prepared and coated 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 high hide and vertical hold characteristics, allows for higher 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 ultra-violet resistance.

4. Lightweight:

A **ROOF MATE** roof is lighter than conventional and single-ply systems, putting less stress on the rest 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 repels dirt to remain clean.

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, the repair is accomplished with the use of an acrylic caulk or touch-up with additional **ROOF MATE**.

8. Resists Abusive Weather:

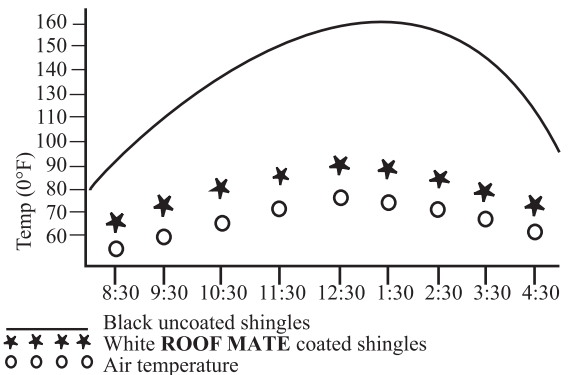
ROOF MATE will take abusive weather conditions of all types. Ice, snow, wind driven rain and sand do not penetrate its tough, dense surface under normal conditions.

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 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, together with its flexibility and bond strength characteristics, allow 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. It is Factory Mutual Approved for recover over FMRC-rated BUR or insulated metal panels. **ROOF MATE** is also ICBO evaluated and listed.

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.

