



Product Information Sheet

MIRACOTE[®] RM III

(Flexible Polymer Modified Cementitious Repair Mortar and Underlayment)

1. PRODUCT DESCRIPTION

A. Composition

RM III Repair Mortar and Underlayment is a flexible synthetic rubber latex liquid, which is blended with specially formulated cementitious component. This combination is mixed and applied on the job resulting in a smooth patching mortar or monolithic underlayment that is designed to receive a finished flooring or decking system.

B. Typical Uses

RM III is designed for use over properly prepared and approved concrete, plywood, steel and other surfaces as a:

Patching and Leveling Coarse for:

- Smoothing uneven surfaces
- Covering heating conduit in concrete
- Covering insulation
- Providing drainage

Patching and Underlayment for:

- Resilient tile
- Ceramic tile
- Linoleum
- Latex Mastic Finishes
- Carpet
- Many types of troweled composition
- Floors and promenade roof surfaces

Generally applications over plywood require installation of expanded metal lath, which are mechanically fastened to the substrate.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Resilient
2. Easily installed
3. Crack resistant
4. Sound dampening
5. Excellent adhesion
6. Trowels smooth
7. Broad application temperature range
8. Vermin proof
9. Engineered dry mix for maximum performance
10. Compatible with most adhesives
11. Contains no solvents
12. Excellent adhesion to concrete, tile and many other substrates
13. Compatible for application over Miracote Liquid Catalyst Primer

LIMITATIONS:

1. May reflect working concrete cracks.
2. Do not install in freezing weather.
3. Minor shade variation may occur with natural cement color material.
4. Not suitable for use in areas where acids are spilled.
5. Efflorescence can develop as a result of the migration of water and can result in the failure of substrate or bond or discoloration of the surface.
6. Moisture vapor transmission (MVT) in excess of 6.0 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration or improper curing. Use Miracote MVERS™ Primer vapor control membrane over substrates, which have MVT emissions that exceed these limits. Consult with Crossfield prior to using MVERS Primer if moisture vapor transmission exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

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| A. Compressive Strength ASTM C109 | 2,114 psi |
| B. Tensile Strength ASTM C307 | 925 psi |
| C. Flexural Strength ASTM C580 | 2,415 psi |
| D. Flow at Elevated Temperature (300°F (149°C) for 4 hrs.) | None |
| E. Corrosive Effect on Aluminum or Steel | None |
| F. Adhesion @ up to 1/8" thick (Shear from steel plate) | 192 psi |
| G. Adhesion @ up to 1/4" thick (Shear from steel plate) | 122 psi |
| H. Compression Strength Loss (Three Days Immersion in 140°F (60°C) | 4% max. |
| I. Impact Resistance – (2 lb steel ball dropped from eight foot height samples on steel plate) No cracking or loss of adhesion Indentation @ up to 1/8" .023" Indentation @ up to 1/4" .048" | |

3. INSTALLATION

- A. Miracote Installation Guideline ICH 381 describes installation procedure, substrate preparation, tools, equipment and materials required or recommended.
- B. Prepare surfaces by removal of laitance, grease and foreign matter.
- C. Apply Miracote Waterproof Membrane, if specified.
- D. Apply bonding coat by trowel or brush.
- E. Trowel apply underlayment base body coat.
- F. Power sand to remove trowel marks.
- G. Apply desired finish materials or composition system.

Note: Special Miracote drains, floor clean-outs, etc. are available from most major drain manufacturers. These should be used in conjunction with Miracote floor applications. Consult Crossfield Products Corp. for current listing and plumbing recommendations.

4. PRODUCT AVAILABILITY

Miracote Products/Systems are available from Authorized Miracote Distributors or from Crossfield Products Corp.

5. CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

6. MAINTENANCE

For maximum sheen and cleanability, floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

7. SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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