



# MiraFlex FRM

## Product Technical Data Sheet

Miracote MiraFlex FRM (Fracture Resistant Membrane) system is a waterproofing membrane with a fabric reinforced cementitious protection layer. The membrane portion of the system is typically installed at a thickness of 40 mils. The fabric reinforced protection layer is typically installed between 125 and 210 mils. It is applied to floors and molded up onto bases, over curbs, etc. The system can be applied over concrete, wood or metal surfaces.

### ADVANTAGES

- Thin section – no depression of slab required.
- Environmentally safe – contains no organic solvents and is VOC compliant.
- Provides positive waterproofing.
- Crack isolation – reduces reflective cracking from the substrate to the final finish.
- Meets all test requirements of the Ceramic Tile Institute’s specification for waterproof membrane under tile.
- Can be applied over new and existing surfaces.
- Available through Miracote distributors.

### COVERAGE RATES

Liquid Membrane: 40 sq. ft. per gallon.  
MPC & Fabric: 400 sq. ft. a unit.

### PACKAGING

Consult Miracote Distributor

### MIX RATIO

Liquid Membrane: Use as supplied.  
MPC: 5 gal Liquid Catalyst : Two 55-lb bags Powder  
RP Fabric: Use as supplied.

### SHELF LIFE AND STORAGE

Shelf life will be one year from the date of manufacture as long as containers remain unopened and when material is stored in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

### WHERE TO USE

- As a waterproof, “fracture-resistant” underlayment for use under ceramic tile, quarry tile, marble and certain types of troweled composition flooring. This system is also used as a waterproof traffic surfacing over balconies; sun decks and promenade roof decks in certain climatic regions. Also used between slab, over computer access flooring, mechanical equipment rooms, toilet rooms, shopping malls, commercial kitchens, etc.

### TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

#### Hydrostatic Conditioning

Hydrostatic Control.....	no water penetration
Indentation Resistance .....	no water penetration
Alkali Resistance.....	no water penetration
Puncture Resistance .....	no water penetration
Fungus Resistance .....	no growth & no water penetration
Bacteria Resistance.....	no growth & no water penetration
Breaking Strength .....	265 psi
Elongation (membrane) .....	1,150%
Elongation (system) .....	50.05% Split
Slab Testing.....	Moderate Commercial & No water penetration

### FOR BEST RESULTS

Install a minimum 4’ by 4’ test area site mock up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.

Verify current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at [www.miracote.com](http://www.miracote.com).

Protect materials from excessive heat and cold and regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application thicknesses and rate are obtained.

### OVERVIEW OF INSTALLATION

- Clean surfaces of dirt, foreign matter, curing agents, etc. Remove all loose or decomposed matter.
- Apply cementitious Bondcoat to prepared surface by trowel.
- Apply Miracote Membrane waterproofing by trowel or squeegee in two coats to achieve a nominal 40 mils. Thickness.
- Apply cementitious protection coat by trowel. Embed polypropylene reinforcing fabric into the wet material.
- Apply cementitious grout coat to smooth out surface (optional).
- Apply decorative texture finish and sealer (optional).

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### LIMITATIONS

- Requires sound and properly prepared substrate. All loose or unsound concrete must be removed.
- Not designed for application over expansion joints or major working cracks that should be routed and sealant treated.

### PRODUCT AVAILABILITY

Crossfield Products Corp. Miracote maintains offices and factories at addresses listed below. Miracote products are available for purchase through reputable distribution in the building trades.

### MAINTENANCE

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

### SPECIFICATION ASSISTANCE

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

### 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.

### 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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