



# MiraFlex Membrane B

## Product Technical Data Sheet

Miracote MiraFlex Membrane B is a specially formulated polymer emulsion waterproofing designed for use over metal flashing, beneath ceramic tile, marble, quarry tile, below grade, between slab and under Miracote composition floors and decks.

Miracote MiraFlex Membrane B is recommended for tank lining in potable water drinking systems. It is based on a unique acrylic emulsion that dries to form a tough water and vapor resistant film. The latex is water based, environmentally friendly and does not contain any solvent. Cold weather application is achieved with this membrane technology.

Applied by roller, trowel, spray or squeegee, Miracote MiraFlex Membrane B offers tenacious adhesion, water protection, and is more resistant to impact than most membranes. It is applied to floors and molded up onto bases, over curbs, etc. without the use of any adhesive other than its own composition. Among the surfaces MiraFlex Membrane B can cover are lath, metal flashing, concrete, tile and other metals including copper. For wood surfaces, consult Crossfield Products Corp.

The final thickness of Miracote MiraFlex Membrane B is 25 mils dry (standard application, two applications of 23-25 mils wet) and 30 mils dry (polypropylene fabric reinforced). Laboratory tests have established that Miracote MiraFlex Membrane B will bridge concrete cracks up to 1/8" (3.2mm) at temperatures as low as 0°F. However, prudent design would assume that the product could be expected to bridge a crack of up to 1/16" (1.6mm) at its widest point.

### ADVANTAGES

- Excellent adhesion to tin, aluminum, copper, steel, nickel, and galvanized metal.
- Forms a monolithic, tightly adhering, molded membrane across floors and up bases, curbs, etc.
- Environmentally safe, VOC compliant.
- Reduces reflective cracking caused by substrate movement.
- Thin section does not interfere with building elevations.
- Unlike sheet goods, fluid applied Membrane B can easily be applied to irregular shapes.
- Quick drying – Touch dry in 1-2 hours, fully dry in 12 hours.
- Cures at cold temperature as low as 40°F (4.4°C).
- Available through Miracote distributors.

### COVERAGE RATES

64 sq ft per gallon  
25 mils WFT  
12.5 mils DFT  
w/Fabric coverage adjustment required using about 20% more Membrane

### PACKAGING and COLORS

1-gallon pail (25 gallon Minimum Order)  
5-gallon pail  
50-gallon drum

### MIX RATIO

Single Component. 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 store in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

### WHERE TO USE

As a waterproof membrane directly under seamless composition floors (Miracote or other), ceramic tile, quarry tile, marble, etc. For application as mechanical equipment room waterproofing or computer access floor waterproofing for below grade or between slab applications, consult separate Crossfield Products Corp. specifications.

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

<b>Waterproofness</b> .....	No passage of water {(Resistance to passage when subjected to 27.7" head of water (hydrostatic pressure of 1 lb/ft) for one month.)}
<b>Elongation</b> (with fabric) ASTM D2370.....	82%
<b>Tensile Strength</b> (with fabric) ASTM D2370.....	1586 psi
<b>Bacteria &amp; Fungus Resistance</b> ASTM G22.....	No growth
<b>Adhesion in Peel to Concrete</b> .....	8.3 lbs/in width
<b>Moisture Vapor Transmission</b> ASTM E96.....	0.76 Perms (Grams/sq. meter/24 hrs)
<b>Crack-Bridging</b> ASTM E836 1/8" opening @ 77°F.....	Pass (No rupture)
<b>Hydrostatic Resistance</b> ASTM D751 Procedure B .....	Pass
<b>Cold Temperature Flexibility</b> May be folded double, maintains stretch-ability when immediately removed from freezer	

### 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.

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### OVERVIEW OF INSTALLATION STEPS

- Prepare surfaces by removal of laitance, grease, and foreign matter, etc. Repair damaged concrete or provide sloping using Miracote Underlayment.
- Prime with MiraFlex Membrane B, cut 50% with water. Allow to dry.
- Apply MiraFlex Membrane B to thickness sufficient to produce 25 mils d.f.t., 12.5 mils dry per coat, two coats. (Incorporate fabric reinforcement as option for thickness of 30 mils). See Installation Guide (IG) for coverage per coat.
- Apply cementitious coating protection course (optional).
- Conduct water test of finished installation.
- Optional thickener additive available for vertical applications.

### LIMITATIONS

- Not recommended for application over expansion joints or seismic joints.
- All loose or unsound concrete must be removed and repaired.

### 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.**



**Miracote Product Line**  
**Crossfield Products Corp**

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