



MiraFlex Membrane A

Product Technical Data Sheet

Miracote MiraFlex Membrane A is a unique polymer emulsion waterproofing designed for use beneath ceramic tile, marble, quarry tile, below grade, between slab and under Miracote composition floors and decks.

Miracote MiraFlex Membrane A is recommended for tank lining in potable water drinking systems. It is based on styrene butadiene latex that dries to form tough, water and vapor resistant film. The latex is water based, environmentally friendly and does not contain any solvent. It is non-toxic and can be used in conjunction with potable water.

Applied by roller, trowel, spray or squeegee, Miracote MiraFlex Membrane A offers water protection together with excellent adhesion 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 A can cover are concrete, tile and metal. For wood surfaces, consult Crossfield Products Corp.

The final thickness of Miracote MiraFlex Membrane A 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 A will bridge concrete cracks up to 1/8" (3.2 mm) at temperatures as low as 0°F. However, prudent design would assume that the product can be expected to bridge a crack of up to 1/16" (1.6 mm).

ADVANTAGES

- IAMPO Listed as a Shower Pan Liner.
- Forms a monolithic, tightly adhering, molded membrane across floors and up bases, curbs, etc.
- Environmentally safe, VOC compliant.
- Stable under routine storage conditions (out of direct sunlight at temperatures above 0°C) for a period of 24 months from date of manufacture.
- Reduces reflective cracking, caused by substrate movement.
- Thin section does not interfere with building elevations.
- Unlike sheet goods, fluid applied membrane can easily be applied to irregular shapes.
- Quick drying – Touch dry in 1-2 hours, fully dry in 12 hours.
- Odorless.
- Choice of colors.
- Available through Miracote distributors.

COVERAGE RATES

64 sq ft per gallon

25 mils WFT

12.5 mils DFT

Note: Fabric coverage adjustment requires 20% more MiraFlex Membrane A.

PACKAGING and COLORS

5-gallon pail

MIX RATIO

Single Component. Use as supplied.

SHELF LIFE AND STORAGE

Shelf life will be 2 years 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 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)

Waterproofness.....No passage of water
Resistance to passage when subjected to 27.7" head of
Water (hydrostatic pressure of 1 lb/ft) for one month.

Elongation ASTM D638.....580%

Tensile Strength ASTM D638.....345 psi

Bacteria & Fungus Resistance ASTM G21..... Passes Rating 2

Adhesion in Peel to Concrete8.3 lbs/in width

Moisture Vapor Transmission ASTM E96.....2.04g
(Grams/sq. meter/24 hrs)

Crack-Bridging ASTM E836
1/8" opening @ 77°F..... Pass (No rupture)

Hydrostatic Resistance ASTM D751
Procedure B..... Passes

Permeability ASTM E96.....0.013 perm/inches

VOC.....6 g/L

Cold Temperature Flexibility
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.

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 provides sloping using Miracote Underlayment.
- Prime with MiraFlex Membrane A, cut 50% with water. Allow to dry.
- Apply MiraFlex Membrane A 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) MIR.225 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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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