



Product Technical Data Sheet

MIRACOTE[®] MEMBRANE A Liquid Waterproofing Membrane (IAPMO Approved Shower Pan Liner)

1. PRODUCT DESCRIPTION

A. COMPOSITION

Miracote 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.

Membrane A is recommended for tank lining in potable water drinking systems. Membrane A is based on a styrene butadiene latex that dries to form a 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 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 Membrane A can cover are concrete, tile and metal. For wood surfaces, consult Crossfield Products Corp.

The thickness of Miracote Membrane A is 25 mils (standard application) and 50 mils (polypropylene fabric reinforced). Laboratory tests have established that Miracote Membrane A 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 can be expected to bridge a crack of up to 1/16" (1.6mm).

B. TYPICAL USES

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.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. IAPMO Listed as a Shower Pan Liner.
2. Forms a monolithic, tightly adhering, molded membrane across floors and up bases, curbs, etc.
3. Environmentally safe, VOC compliant.
4. Reduces reflective cracking caused by substrate movement.
5. Thin section does not interfere with building elevations.
6. Unlike sheet goods, fluid applied membrane can easily be applied to irregular shapes.

7. Quick drying – Touch dry in 1-2 hours, fully dry in 12 hours.
8. Odorless.
9. Choice of colors.

LIMITATIONS:

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

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

A. Waterproofness

Resistance to passage when subjected to 27.7" head of water (hydrostatic pressure of 1 lb/ft) for one month.

No passage of water

B. Elongation ASTM D638 562%

C. Tensile Strength ASTM D638 560 psi

7 days dry / 21 days wet

D. Bacteria & Fungus Resistance No growth
ASTM G22

E. Adhesion in Peel to Concrete 8.3 lbs/in width

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

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

H. Hydrostatic Resistance ASTM D751
Procedure B Pass

I. Permeability ASTM E96 0.013 perm/inches

J. Cold Temperature Flexibility
May be folded double, maintains stretch-ability when immediately removed from freezer.

3. INSTALLATION

- A. Prepare surfaces by removal of laitance, grease, foreign matter, etc. Repair damaged concrete or provide sloping using Miracote Underlayment.
- B. Prime with Membrane A, cut 50% with water. Allow to dry.
- C. Apply Membrane A to thickness sufficient to produce 25 mils d.f.t. (incorporate fabric reinforcement as option for thickness of 50 mils). See Installation Guide Line MIR225IG for coverage per coat.
- D. Apply cementitious coating protection course (optional).
- E. Conduct water test of finished installation.
- F. Optional thickener additive available for vertical applications.

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

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

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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