

MEMBRANE C

Flexible Cementitious Waterproofing Membrane

PRODUCT DESCRIPTION

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

Membrane C is based on a mixture of a styrene butadiene latex polymer emulsion blend and a novel blend of cementitious and silica powders that react to form a tough, yet flexible, water and vapor resistant film. This cementitious membrane is water based, virtually free of volatile organic content (VOC), environmentally friendly, and LEED point eligible.

Applied by roller, trowel, spray or squeegee, Membrane C offers a combination of water protection and mechanical wear, 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 that Membrane C can cover are concrete, tile and metal. For wood surfaces, consult Crossfield Products Corp.

The thickness of Membrane C is 50-60 mils (standard application) and 90 mils (polypropylene fabric reinforced). Laboratory tests have established that Membrane C will bridge concrete cracks up to 1/8" (32 mm) 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" (16 mm).

TYPICAL USES

Membrane C can be used in either interior or exterior applications, above grade or below. It is ideal for balconies, planters, decks and roof structures. It is also very useful as an exterior (positive side) below-grade waterproofing material. Other applications include mechanical equipment rooms, secondary containment areas, pools, fountains, fishponds, and most other reinforced concrete structures.

ADVANTAGES

- Solvent free; LEED point eligible
- Forms a monolithic, tightly adhering, cementitious flexible membrane
- Environmentally safe, VOC compliant
- Reduces reflective cracking caused by substrate movement
- Thin section does not interfere with building elevations
- Unlike sheet goods, fluid applied cementitious membrane can easily be applied to irregular shapes
- Quick drying – Touch dry in 2-4 hours, fully dry in 12 hours
- Odorless
- In most applications no priming necessary
- White Powder/Liquid Mix can be blended with LIP at 8 GL of Membrane C Liquid to 1 LIP

COVERAGE RATES

80 ft² at 60 mils

PACKAGING AND COLORS

7038	Membrane C Powder (43 lb bag, natural)
7038-W	Membrane C Powder (43 lb bag, white)
7047	Membrane C Liquid (2 gallon pail)

MIX RATIO

2 Gal Liquid: 1 43 Pound Bag

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.

TYPICAL PHYSICAL PROPERTIES @ 75F (24C)

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

Elongation ASTM D638 65%

Tensile Strength ASTM D638 750 psi

7 days dry / 21 days wet

Bacteria & Fungus Resistance ASTM G22 No growth

Adhesion in Peel to Concrete 8.3 lbs/in width

Moisture Vapor Transmission ASTM E96 2.5g

(Grams/sq. meter/24 hrs)

Crack – Bridging ASTM E836

1/8" opening @ 77°F Pass (No rupture)

Hydrostatic Resistance ASTM D751

Procedure B Pass

Permeability ASTM E96 0.75 perm/inches

Cold Temperature Flexibility

May be folded double, maintains stretch-ability when immediately remove from freezer.

Mixture 2 gallons polymer emulsion

One bag (43 lb.) powder

Pot Life 60 min

Water can be added after 60 minutes to extend pot-life.

Yield One unit (two pails liquid and one bag powder)

80 sq. ft. at 60 mils

Dry Time Set-to-touch 3 hours

Re-Coat 2 hours

Light foot traffic 12 hours

Full use 24 hours

OVERVIEW OF INSTALLATION STEPS

(Please refer to the following and contact Miracote with questions)

- Prepare surfaces by removal of laitance, grease, foreign matter, etc. Repair damaged concrete or provide sloping using Miracote Underlayment.
- Apply Membrane C to thickness sufficient to produce 30 mils d.f.t. (incorporate fabric reinforcement as option for thickness of 50 mils). Applied in two coats at nominal 26 feet per gallon/per coat.
- Conduct water test of finished installation.

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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 guidelines (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.

LIMITATIONS

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

PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Products can be purchased through many building materials distributors.

MAINTENANCE

Depending on a number of various factors including weather conditions, location, UV exposure, vehicular vs. pedestrian traffic, your maintenance schedule will change. Please consult your local Miracote Representative for proper instructions.

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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