

Product Description Sheet

Waterproofing Membrane System

1. PRODUCT DESCRIPTION

A. COMPOSITION

Cemceil Waterproofing Membrane System is a unique cementitious polymer emulsion waterproofing material designed for use as a liquid containment or fracture resistant overlay for protection of spalled cracked or deteriorated concrete surfaces.

Cemceil Waterproofing Membrane System is based on a proprietary mixture of a synthetic polymer emulsion and a blend of cementitious and specialty aggregate powders that react to form a tough, flexible, water tight and vapor resistant compound. This cementitious membrane is water based, virtually free of volatile organic content (VOC), environmentally friendly, and is eligible for LEED computation point.

Cemceil is fluid applied by roller, trowel, spray or squeegee. It offers waterproof protection and is load bearing to routine maintenance traffic, combined with excellent adhesion. It is more impact resistant than traditional soft membranes. It can be applied to horizontal and vertical surfaces for interior or exterior uses. It can be molded up onto bases, over curbs, etc. without the use of any adhesive. Cemceil can be applied to concrete, masonry, tile or cement type boards. For wood or other surfaces consult Crossfield Products Corp.

Cemceil is applied at a nominal 30 mils minimum per coat, with a standard application at 40 mils minimum, or at 50 mils or greater when fabric reinforced. Laboratory tests have established that Cemceil (with or without fabric reinforcement) will bridge static concrete cracks up to 1/8" (3.1750 mm) at temperatures as low as 0°F. However, when bridging static cracking or fissures over 1/16" (1.6mm) crack detailing is recommended before application of the Cemceil system.

B. TYPICAL USES

Cemceil Waterproofing Membrane System can be used in either interior or exterior applications, above or below grade. It is ideal for waterproofing fountains, water features, planters, turn bar transitions, as a part of deck or balcony coating systems, under tile or slate, stone, or other hard flooring materials. It is very useful as an exterior positive side or negative side, below-grade waterproofing material. Other applications include mechanical equipment room membranes, swimming or storage pool crack isolation, fish ponds, and most other reinforced concrete structures in need of waterproofing protection.

Cemceil is certified to NSF Standard 61 per ASTM listing for use in Potable Water containment.

C. ADVANTAGES - LIMITATIONS

ADVANTAGES

- Forms a monolithic, tightly adhering, cementitious flexible membrane
- Environmentally safe, VOC compliant
- Applied to either Negative or Positive side
- Can reduce very limited reflective cracking caused by substrate movement

- Thin section does not interfere with most building elevations
- Unlike sheet goods, fluid applied cementitious Cemceil can easily be applied to irregular shapes
- Quick drying: Touch dry in 2-4 hours, fully dry in 12 hours
- Odorless
- Installed only by Professional Factory Trained Dex-O-Tex Contractors

LIMITATIONS

- Not recommended for application over expansion or seismic joints
- Substrate must be sound and secure
- Can exhibit efflorescence when the surface is dry
- Colors are approximate and may vary between production batches

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 65%

C. Tensile Strength ASTM D638 750 psi
7 days dry / 21 days wet

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

E. Moisture Vapor Transmission ASTM E96 2.5g
(Grams/sq. meter/24 hrs)

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

G. Hydrostatic Resistance ASTM D751
Procedure B..... Pass

H. Permeability ASTM E96..... 0.75perm/inches

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

J. Mixture..... 2 gallons polymer emulsion
One bag (43 lb.) powder

K. Pot-Life..... 60 min
(Water can be added after 60 minutes to extend pot-life)

L. Yield..... 26 ft² at 30 – 50 mils / coat
One unit (one two-gallon pail liquid and one bag powder)

M. Dry Time Set-to-touch:..... 3 hours
Re-Coat 2 hours
Light foot traffic..... 12 hours
Full use..... 24 hours

3. OVERVIEW OF INSTALLATION

- Refer to and follow Dex-O-Tex Application Specification S-600, check web site for updates and latest version.
- Review and Confirm approved samples with owner before installation of any pigmented system as specified.
- Conduct water test of finished installation.

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4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and factories at 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

Primary Cleaning is with water, or water mixed with mild detergent. Agitate with a soft bristle brush. Rinse thoroughly. 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

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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