



Product Description Sheet

Waterproofing Membrane System

1. PRODUCT DESCRIPTION

A. COMPOSITION

Barrier-Guard Waterproofing Membrane is an exceptional copolymer emulsion waterproofing designed for use beneath ceramic tile, marble, quarry tile, below grade and between slab, and under most Dex-O-Tex composition floor and deck systems. It is IAPMO certified and complies with ANSI 118.10 as a waterproof membrane.

Barrier-Guard Waterproofing Membrane offers protection against water and water borne salt intrusion, together with excellent adhesion. It is applied to horizontal and vertical concrete substrates, bricks, tile and metal. For wood surfaces consult Crossfield.

Barrier-Guard Waterproofing Membrane is water-based and totally free of volatile organic content. It has no toxic odor and can be applied with or without fabric reinforcement.

The thickness of Barrier-Guard Waterproofing Membrane is a minimum of 40 mils (1.02mm) for standard applications and 62 mils (1.59 mm) with polypropylene fabric reinforced.

B. TYPICAL USES

Use Barrier-Guard as waterproof membrane directly under seamless composition floors (Dex-O-Tex or other), ceramic tile, quarry tile, marble, etc. For application as a mechanical equipment room waterproofing or computer access floor waterproofing, below grade, or between slab applications, consult separate Crossfield specifications for those uses.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. IAPMO certified to ANSI 118.10 Listed as a Shower Pan Liner.
2. Forms a monolithic, tightly adhering, molded waterproofing membrane across floors and up cove bases, curbs, etc.
3. Environmental, safe and VOC compliant.
4. Reduces reflective cracking caused by dynamic substrate movement.
5. Thin film cross section does not interfere with building elevations.
6. Unlike waterproofing sheet goods, fluid applied membranes can easily be applied over irregular shapes.
7. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. Minimum ambient and surface temperatures during installation and cure must be 45°F (7°C). Do not allow product to freeze prior to cure.
2. Not recommended for application over dynamic joints (expansion, isolation, etc.) or dynamic large cracks.
3. All loose or unsound concrete must be removed and repaired prior to placement.

4. Moisture vapor emission rates (MVER) in excess of 6.0lbs/1000sq/ft/per 24hr. period per ASTM F1869, or an rh in excess of 78% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with Crossfield Products Corp. for specific recommendations.
5. Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield products Corp. for specific recommendations.

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

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|--|---------------------------------|
| A. Waterproofness | No Passage of Water |
| Resistance to passage when Subject to 27.7" head of water (Hydrostatic pressure of 1 lb./ft.) for one month. | |
| B. Elongation ASTM D638 | 580% |
| C. Tensile Strength ASTM D638 | 345 psi |
| D. Adhesion in Peel to Concrete ASTM C794..... | 8.3 lbs (pounds per inch width) |
| E. Moisture Vapor Transmission ASTM E96..... | 2.04 gr |
| F. Crack-Bridging ASTM C836, 1/8" opening..... | no rupture |
| G. Hydrostatic Resistance ASTM D751 | Passes Procedure |
| H. Permeability ASTM E96..... | 0.013 perm/in |
| I. VOC | 6 g/L |
| J. Antimicrobial Resistance ASTM G21 | Passes Rating 2 |

3. OVERVIEW OF INSTALLATION STEPS

- A. Prepare surfaces by removal of laitance, grease, foreign matter, etc. Repairs damaged concrete or provide sloping using Dex-O-Tex A-81 Underlayment.
- B. Apply Barrier-Guard Waterproofing Membrane to thickness sufficient to produce 28 mils (0.71mm) DFT and for greater dimensional stability incorporate fabric reinforcement.
- C. If optional reinforcement is used, install an additional coating of Barrier-Guard.
- D. Apply cementitious coating protection course (optional).
- E. Conduct water test of finished installation.

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. SKID RESISTANCE and CLEANABILITY

In general the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

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6. 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.

7. SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. CHEMICAL RESISTANCE

See Crossfield Products Corp's., Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining.
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- Crossfield Products Corp. Proprietary Testing

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the products or system in accordance with intended end use.

9. 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. INVOICE ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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