



1. PRODUCT DESCRIPTION

A. COMPOSITION

Dex-O-Tex Barrier-Guard Fracture Resistant Membrane is a composite system consisting of a proprietary synthetic rubber emulsion waterproofing membrane with a fabric reinforced cementitious protection layer designed and test to conform to ANSI 118.10. It is designed for use beneath thin set or mortar bed applications of ceramic tile, marble, quarry tile, and certain types of troweled composition flooring. It can also be used for between slabs or below grade waterproofing or planter waterproofing applications. It is applied to substrates and molded up onto bases, over curbs, etc. without the use of any adhesive other than its own composition.

Among the substrate surfaces which Dex-O-Tex Barrier-Guard Fracture Resistant Membrane can cover are concrete, wood or plywood (after special preparation). The membrane portion of the system is typically installed at a thickness of 25 - 40 mils (10.17mm). The fabric reinforced protection layer is typically installed between 60 mils and 80 mils. The finished system is usually between 100-140 mils plus or minus 10 mils dft (3.8mm plus) depending on use.

B. TYPICAL USES

As fracture resistant waterproof membrane directly under ceramic tile, quarry tile, marble and seamless composition flooring in washrooms, showers, promenade decks (in certain climatic regions), planters, between slabs, under computer access flooring, mechanical equipment rooms, toilet rooms, shopping malls, medical research animal housing, commercial kitchens, etc.(Consult CPC for specific application recommendations)

C. ADVANTAGES-LIMITATIONS

ADVANTAGES

1. IAMPO Certified Listing as an ANSI 118.10 Shower Pan Liner.
2. Provides positive waterproofing. Mold and fungi resistant
3. Crack Isolation. Reduces reflective racking from the substrate to the final finish due to minor cracking in the substrate.
4. Forms a monolithic tightly adhering molded membrane across floors and up bases, curbs, etc.
5. Thin section. No depression of slab required.
6. Installed by Approved Dex-O-Tex Applicators.
7. Can be applied over new or existing surfaces.
8. Environmentally safe. Contains no Organic solvents, and is VOC compliant.

LIMITATIONS

1. Requires sound and properly prepared substrate. All loose or unsound concrete must be removed and repaired

with a Dex- O-Tex underlayment prior to the application of Barrier-Guard Fracture Resistant Membrane.

2. Waterproofing must terminate at seismic or expansion joints.
3. Temperature must be between 40°F (10°C) and 110°F (43°C) during installation and cure.
4. Concrete substrate must be sound and durable and free of large "working" cracks to prevent reflection through finish.
5. Moisture vapor emission rates (MVER) in excess of 3.0lbs/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.
6. 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)

A. Bond Strength

ASTM C482 (modified)Dry77 psi
Wet62 psi

B. Tensile Strength

Ceramic Tile Inst. SE S763 ...Dry46 psi
Wet50 psi

C. Breaking Strength ASTM D751265 psi

D. Elongation Fabric Reinforced ASTM D751 50.5%

E. Hydrostatic Pressure Resistance

ASTM D751, Method A, Procedure 1.....240 psi

F. Ozone Resistance ASTM D1149

(72 hrs @ 100 ppm No cracking, 90°F plus hydrostatic Crazing or water FHA 4900.1) penetration

G. Dimensional Stability ASTM D1204..... <0.5%

H. Indention Resistance FMA 4900.1, Sect. 615-5

No water (shower pans) penetration

I. Puncture Resistance FMA 4900.1, Sect. 615-5

No water (shower pans) penetration

J. System Performance ASTM C627

(Modified to Comply with Ceramic Tile Institute moderate Split Slab procedure Commercial).....No Water Penetration

K. Microbial Resistant ASTM G21 Passes Rating 2

System Description Sheet

Barrier-Guard Fracture Resistant Membrane Fracture Resistant Waterproof Membrane

L. VOC 6 g/L

3. INSTALLATION

These are general instruction, please consult CPC for recommendation of specific applications.

- A. Prepare surfaces by removal of laitance, grease, foreign matter, etc. Repair damaged concrete or provide sloping using Dex-O-TEX underlayment.
- B. Apply cementitious bondcoat to floor and wall base surfaces.
- C. Apply synthetic liquid rubber membrane.
- D. Apply cementitious protection coat and embed reinforcing fabric while still wet.
- E. Apply additional protection layer (optional).

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and factories at addresses listed below. Factory Trained Dex-O-TEX Contractors are established in all major trading areas in the United States, Canada and various European and Far Eastern nations.

5. MAINTENANCE

For maximum sheen and cleanability floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

6. SPECIFICATION ASSISTANCE

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

7. 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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