

DEX-O-TEX

Product Description Sheet

VAPORCONTROL PRIMER 100

Negative Side Moisture Vapor Suppression System



1. PRODUCT DESCRIPTION

A. COMPOSITION

VaporControl Primer 100 is a fluid-applied uniquely-modified epoxy moisture mitigation system. It is designed to be used as an above and below grade vapor retarder that is used on negative side (between the concrete slab and the impervious coating or surfacing) vapor transmission suppression system that will withstand moisture vapor emission rates (MVER) of 15lbs/1000 sq/ft/24 hrs. It is recommended for use under impervious non-breathing flooring systems that cannot withstand moisture vapor transmission levels with MVER rates above the floor covering manufacturer's recommended levels.

VaporControl Primer 100 is ideal for use under the vast majority of non-breathing flooring systems, including epoxies, urethanes, rubber, adhesives (for carpet, vinyl and wood), vinyl tiles, vinyl sheet goods, woods and other impervious flooring systems.

As a general rule, most flooring manufacturers (rubber backed carpet, tile, vinyl, wood or resinous) do not recommend installing their products on concrete slab surfaces having MVER levels in excess of 3.0 lbs. of moisture emission over a 1,000 square foot area during a 24 hour time period as measured by an anhydrous Calcium Chloride Test Procedure tested in accordance with ASTM F1869.

In addition, VaporControl Primer 100 has proven to reduce moisture vapor emissions and prevent damage from high alkalinity to allow for the successful installation of vinyl, wood or resinous flooring to concrete substrates.

VaporControl Primer 100 is applied in a single application of 14 mils. If vinyl, tile, rubber, wood, carpet or other manufacturer flooring is the final flooring, a polymerized cementitious intermediate coat is applied to provide for proper adhesion of the finished flooring system. Dex-O-Tex resinous flooring systems may be applied directly to the VaporControl Primer 100 System. Consult Crossfield for recommendations regarding potential intermediate coating products for non-Dex-O-Tex products.

Formulated with environmental requirements in mind, VaporControl Primer 100 contains no hydrocarbon solvents and thus meets all volatile organic compound substance regulations. VaporControl Primer 100 has no significant odor during installation.

B. TYPICAL USES

VaporControl Primer 100 is placed directly on properly prepared, strong and durable concrete substrates. The day after placement (usually 16 hours), the intended (impervious non-breathing or moisture sensitive) flooring system can be placed.

CAUTION: Concrete must be a minimum of 10 days old at time of application. Contact Crossfield for recommendations if fully cured concrete displays a moisture emissivity greater than 15lbs/1000 sq/ft/24 hrs per ASTM F1869.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Long Term Limited Warranty is available (Consult Crossfield for Details for Warranty Registration).
2. Reduces or eliminates the negative effects of moisture vapor emissions.
3. Excellent adhesion to damp concrete.
4. Convenient 2-1 by volume mix ratio.
5. High compressive, flexural and tensile strengths.
6. Installed only by professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. Minimum ambient and surface temperatures of 55°F (7°C) required during installation.
2. If sub-surface cracks, Dex-O-Tex VaporControl Primer 100 may reflect those cracks to some degree.
3. Is not a substitute for a functioning vapor barrier placed beneath the concrete slab.
4. Prior to placement of third party flooring systems on top of VaporControl Primer 100, check to make sure sufficient third party adhesive bond strength can be developed.
5. VaporControl Primer 100 is a topical treatment, therefore it is not a remedy for ASR (Alkali Silica Reaction) contributed failure.

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

A. Adhesion ASTM D4541	>400 psi (100% failure in concrete exposed to Moisture Vapor Emission Rate (MVER) at 15 lbs/1000 sq/ft/24 hr/per ASTM F1869)
B. Compressive Strength ASTM D695	21,000 psi
C. Tensile Strength ASTM D638	5,600 psi
D. Tensile Elongation ASTM D638, percent	2.7%
E. Permeability (perms) Rating ASTM E96	Dry <0.18 Wet <0.80
F. Microbial Resistance ASTM G21	Passes
G. Alkali Resistance ASTM D1308	Resistant

3. OVERVIEW OF INSTALLATION STEPS

- A. Prepare surface by removal of laitance, grease and foreign matter. Provide open surface on sound and durable concrete.
- B. Apply Dex-O-Tex VaporControl Primer 100 to dampened substrate with a 3/32" notched squeegee. Roll the resinous material immediately with a 3/8" nap roller. Coverage rate is approximately 100 sq/ft (9.29M²) to 115 sq/ft (10.68M²) per gallon depending on the porosity of the substrate.
- C. Allow to cure a minimum of 12 hours prior.

- D. Optional – Use Dex-O-Tex F Patch or A-81 SQ to create a mechanical bond profile for carpet, vinyl and wood adhesives.

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 representative for additional information.

6. SPECIFICATION ASSISTANCE

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

7. CHEMICAL RESISTANCE

See Crossfield Products Corps., 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.

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.

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Crossfield's examination shall disclose to Crossfield's satisfaction to be thus defective.

IN NO EVENT SHALL CROSSFIELD PRODUCTS CORP. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON CROSSFIELD'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH SALE OF A CROSSFIELD PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF CROSSFIELD'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION ABUSE OR MISUSE. CROSSFIELD PRODUCTS CORP. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIAL NOT SUPPLIED BY CROSSFIELD PRODUCTS CORP., WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM CROSSFIELD PRODUCTS CORP. SOLD ITS PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST CROSSFIELD PRODUCTS CORP. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



**DEX-O-TEX Product Line
Crossfield Products Corp.**

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