



Protect flooring installations from the ground up.

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MOISTUREBLOC® VAPOR REDUCTION TOPCOAT FT STEP 2

FAST TRACK • MOISTURE PROTECTION OF ADHESIVES • LOW ODOR

DESCRIPTION

MOISTUREBLOC TOPCOAT FT STEP 2 is part of Vexcon's MoistureBloc Vapor Reduction Systems, which provides a fast and economical solution to preventing floor covering adhesion failure due to moisture. This system is guaranteed to reduce moisture vapor emission rates ranging from 12-15/# readings to below 3#/1000 sq.ft./24hrs, approximately 75%-85% based on ASTM F1869, or more depending on temperature, humidity, ground water levels and rainfall amounts. The product is designed for use over **MoistureBloc Primer Step 1** (see data sheet #CP116A). It provides an excellent base coat for paints or tile and carpet adhesives meeting the requirements of the Resilient Tile Institute and the Tile Adhesion Test Requirements of ASTM C 1315. MoistureBloc Primer Step 2 is an effective alkali blocker on concrete that will subsequently have an adhesive applied. Resilient and ceramic tile, which is applied over MoistureBloc Topcoat Step 2, has greater adhesion to the MoistureBloc than to bare concrete. MoistureBloc Vapor Reduction Topcoat Step 2 protects adhesive from moisture vapor emissions and alkali degradation. For complete system analysis, see data sheet #TN116.

BENEFITS

- Fast track flooring installation - 18 hours from start to flooring installation
- Low odor
- Breathable 1.5 metric perms
- Meets Section 8.9 ASTM C-1315 Adhesion of tile cements.
- Protects adhesive from moisture vapor degradation
- Apply directly to fresh concrete (< 28 days old)
- Resistant to acids, alkalis and reduces the moisture environment which allows mold and fungus to grow
- One coat ready mixed application
- Suitable for low temperature application
- Low per square foot cost
- Reduces moisture vapor readings ranging from 12-15 lbs
- Cures new concrete for fast installation
- Alkali Blocker
- Warranty available

APPLICATION

Vapor reduction system shall consist of the following products applied in accordance with the following procedures and methods.

- The concrete shall be coated with Vexcon MoistureBloc Primer Step 1, applied by sprayer if rolling, for best results use Vexcon's **EvenFlow Applicator** or 1/4" nap roller, at a rate not to exceed 150-160 sq. ft. per gallon, ensure that all pinholes and voids are filled. Allow to dry for a minimum of 12 hours.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread
- After 12 hours, the concrete shall be roller coated with MoistureBloc Vapor Reduction Topcoat Step 2 applied at a rate not to exceed 240-250 sq. ft. per gallon.
- The entire system shall be allowed to fully cure out and dry for a minimum of 6 hours prior to the application of floor covering or F-1869 testing. (It is required that ASTM F1869 test be rerun on the MoistureBloc coated concrete prior to applying floor covering to determine that the water vapor levels have been reduced to a acceptable level. Vexcon will provide additional material if required free of charge if the initial application does not reduce the vapor to less than 3 #/1000 sq.ft./24 hrs.)
- **Many waterbased adhesives require a portion of the water to go into the concrete to help achieve quick tack time; this water will not go through the MoistureBloc System. The tack time of each adhesive should be determined prior to applying the tile; this can vary as much as 100% vs application of the adhesive on concrete. If tack time may not be extended, refer to the section "Application As Base for Cementitious Overlays or Patching Products" of this data sheet.**
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

APPLICATION AS BASE FOR CEMENTITIOUS OVERLAYMENTS OR PATCHING PRODUCTS

The use of MoistureBloc System as a vapor reduction system under cementitious flooring systems must follow the directions below:

1. **MoistureBloc Surface Bond**, data sheet CP154 must be applied over MoistureBloc Step 2 in accordance with manufacturers directions as a primer bonding agent for the cementitious products.
2. The latex primer system for the cementitious manufacturer can be used if designed as a bonding agent to concrete.

FLOOR REPAIR AND RESTORATION

- **MoistureBloc SLU**- High strength and fast setting self leveling underlayment designed to level and smooth interior substrates prior to installation of finished flooring
- **MoistureBloc FP** - Self curing advanced polymer modified skimcoat leveling compound for patching and restoration of interior concrete floor surface defects

NOTE: JOINTS

MoistureBloc and bonding agent/primer must be applied to joints prior to using cementitious patch or floor levelers to fill joints as a protection for compounds.

ANALYSIS

Moisture Bloc, when tested in accordance with TT-P-001411, will withstand greater than 576 # / sq. /ft. of hydrostatic pressure and without allowing water to come through the film and breathe through 1.5 metric perms of water vapor or 1.4 # /1000 sq.ft./24hrs. as an ASTM C-1315, Type 1 Sealer at a 250 sq. ft. /gal. will breathe through less than 1.06 # water per 1000 sq.ft./24 hrs.

SAMPLE ARCHITECTURAL SPECIFICATION

Basis of design: Apply according to manufacturers directions over MoistureBloc Primer Step 1 @ 240-250 sq.ft./gal. MoistureBloc Step 2 manufactured by Vexcon Chemicals Inc., meets the requirements of ASTM C1315 and VOC requirements in accordance with manufacturers recommendation in product data sheet #CP116B.

LABORATORY TESTS

- Bee Laboratories
 - Mortar and cured concrete samples, applied with the MoistureBloc Vapor Reduction System and tested by ASTM F1869, while the bottom of the block is immersed in water, show a reduction on average of 75% in the water vapor. See test report #TN178. Full test report is available by request.
- Case Consulting Labs Slip Resistance
 - ASTM D2047- .68 – Non-Slip

TOPCOATS AND ADHESIVES

MoistureBloc Step 2 can be topcoated with a variety of paints, adhesives and mastics. It is strongly suggested that a test area be applied prior to coating the entire surface.

SPECIFICATIONS/COMPLIANCE

- VOC: <700gr./liter or <5.83 #/gal
Meets:
 - USEPA AIM-Waterproofing Sealers and Treatments
- ASTM C 309 type 1 class A&B
- CSI reference 07 16 13, 09 61 50

PACKAGING

MoistureBloc Topcoat Step 2 is available in 55-gallon drums and 5-gallon pails.

WARRANTY

MoistureBloc Vapor Reduction System is covered by a five-year material replacement warranty. Contact Vexcon for complete warranty information.

VITAL STATISTICS

- Flash Point (TCC) 106° F (41°C)
- Boiling Point (706 mmHg) 310-403 F (154-207°C)
- Autoignition Temp Above 473° F (245°C)

Use foam, carbon dioxide and dry chemicals as extinguishing media for fires. Water may be used to reduce the rate of burning and to cool containers.

PHYSICAL PROPERTIES

- Color Water white
- Dry to Touch 25 minutes
- Tack free 65 minutes
- Solids 25% minimum

SHELF LIFE

If properly stored in its original sealed container, three years from date of manufacture. Rotate your stock.

HEALTH AND SAFETY

- Use of respirators is mandatory when using this product in confined areas.
- Use only with adequate ventilation.
- If swallowed, do not induce vomiting.
- Use of gloves, goggles and other protective clothing is advised when using this product.

Vexcon MSDS #CP116B is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using product obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly or our distributors.

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WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES.

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