



Protect flooring installations from the ground up.

7240 State Road, Philadelphia, PA 19135
215-332-7709 or 888-839-2661
Fax: 215-332-9997

vexcon.com

MOISTUREBLOC® VAPOR REDUCTION REACTIVE TOPCOAT FT STEP 3 - AIM

FAST TRACK PROTECTION FOR REACTIVE ADHESIVES ASTM C1315 TYPE 1

DESCRIPTION

MOISTUREBLOC REACTIVE TOPCOAT STEP 3 AIM is part of Vexcon's MoistureBloc Vapor Reduction Systems, which prevent carpet, tile and wood flooring adhesion loss due to moisture. This system is guaranteed to reduce moisture vapor emission rates to below 3#/1000 sq.ft./24hrs by approximately 75% - 85%, based on ASTM F1869, or more depending on temperature, humidity, ground water levels, and rainfall amounts. MoistureBloc Reactive Topcoat Step 3 AIM is a breathable styrene acrylic stabilized co-polymer based curing and sealing, compound that is tough, chemical resistant, and long lasting. The product is designed for use over MoistureBloc Primer Step 1 (see Product Data Sheet #CP116A) as an ASTM C-1315 sealer, which meets Sect. 8.9 of ASTM C-1315 when reactive adhesives such as urethane or epoxy are used. MoistureBloc Reactive Topcoat Step 3 cures into epoxy and urethane adhesives making a continuous adhesive layer.

Resilient and ceramic tile, which is applied over MoistureBloc Step 3 AIM, has greater adhesion to the MoistureBloc than to bare concrete. MoistureBloc Reactive Topcoat Step 3 AIM protects adhesive from moisture vapor emission and alkali degradation. Step 3 can be used with reactive and non-reactive adhesives.

It provides an excellent base coat for paints or tile and carpet adhesives, and meets the requirements of the Resilient Tile Institute and the Tile Adhesion Test Requirements of ASTM C 1315. Moisture Bloc Primer Step 1 is an effective alkali blocker on concrete that will subsequently have adhesive applied.

BENEFITS

- Meets EPA, OTC, and Canada AIM VOC regulations
- Fast Track Installation -18 hours from start to installation
- Reactive adhesive compatible
- Breathable
- Slip Resistant
- Meets Section 8.9 ASTM C-1315 Adhesion of tile cements.
- Excellent protection against attack by alkali, oil, and common industrial chemicals
- Low moisture transmission rate
- Quick drying
- Re-coatable and paintable
- Water Resistant
- Protects adhesive from moisture vapor degradation.
- Alkali Blocker

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 **MoistureBloc FT Primer Step 1 AIM-OTC**, applied by sprayer, or 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 24 hours, the concrete shall be roller coated with **MoistureBloc Reactive Topcoat Step 3 AIM-OTC** 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 F1869 testing. (It is required that ASTM F1869 test be run on the MoistureBloc coated concrete prior to applying floor covering to determine that the water vapor levels have been reduced to an 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 water based 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 adhesive tack time may not be extended, refer to the section "Application as Base for Cementitious Overlayments or Patching Products" on 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 3 AIM 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 Levelers to fill joints as a protection for compounds.

ANALYSIS

The above recommendation is made based on the following calculations, independent laboratory results and data. MoistureBloc, when tested in accordance with TT-P-001411, will withstand greater than 576 # / sq.ft. of hydrostatic pressure without allowing water to come through the film and breathe through 1.5 metric perms of water vapor or 1.4 # /1000 sq.ft./24 hrs. As an ASTM C-1315, Type 1 Sealer at 250 sq. ft./gal., it will breathe through less than 1.06 # water per 1000 sq.ft./24 hrs.

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

SAMPLE ARCHITECTURAL SPECIFICATION

Concrete will be coated with MoistureBloc Topcoat Step 3 AIM at 240 -250sq.ft./gal. manufactured by Vexcon Chemicals Inc., an ASTM C1315 sealer meeting the requirements of Resilient Tile Institute, tile adhesion test requirements of ASTM C1315 and VOC requirements in accordance with manufacturer's recommendation in product data sheet #CP116C.

SPECIFICATIONS/COMPLIANCE

- VOC<400grams/liter or <3.33 #/gal
- Meets:
 - US EPA AIM-Waterproofing Sealers and Treatments
 - OTC -Waterproofing Concrete/Masonry Sealers
 - LADCO- Waterproofing Concrete/Masonry Sealers
 - SCAQMD Rule 1168 Architectural Sealant (<250 g/L)
 - Canada – Waterproofing Concrete Masonry Sealers
- ASTM C1315 Type 1, Class B
- AASHTO M-148
- ASTM C309, Type 1, Class A&B
- ASTM D2047 ADA/OSHA Non-Slip
- Test reports are available upon request
- CSI reference 07 26 13, 09 61 50.

TOPCOATS AND ADHESIVES

MoistureBloc Reactive Topcoat Step 3 AIM can be top coated with a variety of paints, adhesives and mastics. It is strongly suggested that a test area be applied prior to coating the entire surface.

WARRANTY

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

PACKAGING

MoistureBloc Reactive Topcoat Step 3 AIM is available in 55-gallon drums and 5-gallon pails.

VITAL STATISTICS

- Flash Point: Closed Cup 106°F (4°C)

PHYSICAL PROPERTIES

- Wet appearance
- Dry appearance
- Dry to touch
- Dry - tack free
- Foot traffic
- Vehicle traffic
- Solids
- Water White
- Clear
- 20-25 minutes
- 30-45 minutes
- 1 hour
- Overnight
- 38% minimum

Note: All calculations based upon 68-77°F (20-25°C).

Lower temperatures and higher relative humidity will extend dry times.

SHELF LIFE

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

HEALTH AND SAFETY

CAUTION FLAMMABLE LIQUID

- Resin solution, flammable liquid, red label
- 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 CP116C AIM is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

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

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997

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. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.