MOISTURE BLOC® Vapor Reduction Systems
Protect flooring installations from the ground up.
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MOISTUREBLOC® EMULSION VAPOR REDUCTION REACTIVE TOPCOAT STEP 3

FOR USE WITH REACTIVE ADHESIVES

DESCRIPTION

MOISTUREBLOC® EMULSION REACTIVE TOPCOAT STEP 3 is part of Vexcon's MoistureBloc Vapor Reduction Systems, which provides an economical solution to preventing floor covering adhesion failure due to moisture. This system is designed 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 Emulsion Primer Step 1** see product data sheet #CP115A, when reactive adhesives such as urethane or epoxy are used. MoistureBloc Emulsion 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, has greater adhesion to the MoistureBloc than to bare concrete. MoistureBloc Emulsion Reactive Topcoat Step 3 protects adhesive from moisture vapor and alkali degradation. MoistureBloc Emulsion Reactive Topcoat Step 3 can be used with reactive and non-reactive adhesives.

BENEFITS

- Meets Section 8.9 ASTM C-1315 Adhesion of tile cements.
- Alkali Blocker
- Resistant to acids, alkalis, and reduces the moisture environment which allows mold and fungus to grow
- Protects adhesive from moisture vapor degradation
- Minimal odor
- For reactive adhesives
- Low per square foot cost
- Warranty available

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 Emulsion Step 3 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.

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 Emulsion Primer Step 1, 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 160-180 sq.ft. per gallon and allowed to dry for a minimum of 24 hours.
- Use a roller pan to take off excess product. Do not dip and roll or pour and spread.
- Then apply a second coat of MoistureBloc Emulsion Primer Step 1 at a rate of 160-180 sq.ft./gal. at a 90° angle to the application direction of the first coat to ensure that all pinholes and voids are filled, allow to dry.
- After 24 hours, the concrete shall be roller coated with MoistureBloc Emulsion Reactive Step 3 applied at a rate not to exceed 140-150 sq.ft. per gallon.
- The entire system shall be allowed to fully cure out and dry for a minimum of 24 hours prior to the application of floor covering or 72 hours prior to F1869 testing. (It is required that ASTM F1869 test be run on the MoistureBloc Emulsion 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. *Consult with Vexcon for compatibility of reactive adhesives for flooring. . If adhesive tack time may not be extended refer to the section "Application As Base for Cementitious Overlayments or Patching Products" of this data sheet
- Proper application of Vexcon material is the responsibility of the nstaller 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.

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 cementitous patch or floor levelers to fill joints as a protection for compounds.

ANALYSIS

MoistureBloc, 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 #/1000sq./ft./24 hrs. As an ASTM C-1315, Type 1 Sealer at a 250sq.ft./gal. will breathe through less than 1.06 # water per 1000 sq.ft./24 hrs.

SAMPLE ARCHITECTURAL SPECIFICATION

Basis of design: Concrete will be coated with MoistureBloc Emulsion Vapor Reduction Primer Step 1 as manufactured by Vexcon Chemicals, Inc., a modified acrylic that meets the requirements of Federal Spec. TTC-555B,VOC requirements and TT-P-001411. Surface will be coated at 90sq.ft/gallon in accordance with manufacturer's recommendation in product data sheet #CP115A to provide reduction of moisture vapor from concrete at approximately 75-85%.

LABORATORY TESTS

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

SPECIFICATIONS/COMPLIANCE

VOC <300 gr./liter or <2.08 #/gal.

- Meets:
  - US EPA AIM-Waterproofing Sealers and Treatments
  - OTC-Waterproofing Concrete/Masonry Sealers
  - CARB-Waterproofing Sealers, Concrete/Masonry
- LEED NC category/points: For detailed information visit vexcon.com/green
  - EQ 4.1 – 1 point
  - EQ 7.1 – 1 point
  - EQ 7.2 – 1 point
  - MR 2.1/2.2 – 1 point
  - MR 5.1/5.2 – 1 point
  - ID 1 – 1 point
- ASTM C 309, type 1 class A&B
- ASTM C1315, type 1, class B
- CSI reference: 07 26 13, 09 61 50

TOPCOATS AND ADHESIVES

MoistureBloc Emulsion Reactive Topcoat Step 3 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.

PACKAGING

MoistureBloc Emulsion Reactive Topcoat Step 3 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: Closed Cup >200ºF
- Extinguishing Media: Foams, dry chemical, C02, water may be used to reduce the rate of burning and for cooling containers.

PHYSICAL PROPERTIES

Color	Milky White
Dry to Touch	60 minutes
Dry tack free	30 minutes
Moisture Retention	Passes
Solids	25 % minimum

SHELF LIFE

If properly stored in its original sealed container, two 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 CP115C 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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