



MOISTUREBLOC[®] EMULSION VAPOR REDUCTION TOPCOAT STEP 2

Mildew, Algae, Bacterial and Moisture Protection of Adhesives

VOC content: 285 gr./liter or 2.38 #/gal.. – Cure and Seal

DESCRIPTION

MOISTUREBLOC[®] EMULSION VAPOR REDUCTION TOPCOAT STEP 2 is part of Vexcon's Moisture Bloc Vapor Reduction Systems, which provides a 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 E-1907 (ASTM F1869), or more depending on temperature, humidity, ground water levels and rainfall amounts. The product is designed for use over **MoistureBloc Emulsion Vapor Reduction Primer Step 1** see product data sheet #CP115A. 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 Emulsion Vapor Reduction 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 Emulsion Vapor Reduction Topcoat Step 2, has greater adhesion to the MoistureBloc than to bare concrete. MoistureBloc Emulsion Vapor Reduction Topcoat Step 2 protects adhesive from moisture vapor emissions. For complete system analysis, see product data sheet #TN115.

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
- Reduces moisture vapor readings ranging from 12-15 lbs
- Low per square foot cost
- Warranty available

APPLICATION

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

- The concrete slab shall be coated with MoistureBloc Emulsion Primer Step 1, applied by sprayer or if rolling, for best results use Vexcon's **EvenFlow Applicator** or ¼ " nap roller, at a rate not to exceed 160-180 sq. ft. per gallon and allowed to dry for a minimum of 24 hours.
- Then apply a second coat of MoistureBloc Emulsion Primer Step 1 at a rate of 160-180 sq. ft. per gallon at a 90 degree angle to the application direction to ensure that all pinholes and voids are filled, and allowed to dry.
- After 24 hours, the concrete shall be roller coated, with MoistureBloc Emulsion Topcoat Step 2 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 E1907 testing. (It is required that ASTM E-1907 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.)

APPLICATION AS BASE FOR CEMENTITIOUS OVERLAYMENTS

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

1. **Certi-Vex[®] Envio Bond**, data sheet #RP101 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.

ANALYSIS

MoistureBloc, when tested in accordance with TTP 1411, 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# / 1000sqft/24hrs.

As an ASTM C-1315, Type 1 Sealer at a 150 sq. ft. /gal. will breathe through less than 1.77 # water per 1000 sq.ft./24 hrs.

SAMPLE ARCHITECTURAL SPECIFICATION

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 90 sq.ft/gallon in accordance with manufacturers 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 E-1907 while 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

- Meets USEPA AIM and OTC VOC regulations
- Federal Specifications TT-C-555B for interior and exterior surfaces
- TT-P-001411 for a copolymer resin cementitious paint for waterproofing concrete and masonry walls
- ASTM C 309, type 1 class A&B
- ASTM C1315, type 1, class B
- VOC: 285 gr./liter or 2.38 #/gal. – Concrete Protective Coating
- Meets LEED point standards for green building

TOPCOATS AND ADHESIVES

MoistureBloc Emulsion Vapor Reduction Topcoat Step 2 cured concrete 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, since products can adhere to concrete in varying degrees. MoistureBloc Emulsion Vapor Reduction system is typically topcoated without incident, however, it is advisable to check with manufacturer of the topcoat for any precautionary information.

PACKAGING

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

WARRANTY

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

VITAL STATISTICS

- Flash Point (TCC) >200° F (96°C)
- Boiling Point (706 mmHg) 212 F (100°C)
- Autoignition Temp ND

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	Milky white
Dry to Touch	25 minutes
Tack Free	4 hours
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 #CP115B 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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