



MOISTUREBLOC® VAPOR REDUCTION TOPCOAT FT STEP 2

Fast Track • Moisture Protection of Adhesives • Low Odor

VOC content: 671 gr./liter or 5.60 #/gal. – Cure and Seal

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 E-1907 (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.
- 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 E1907 testing. (It is required that ASTM E-1907 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.

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

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

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 E-1907, 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

- Meets USEPA AIM VOC regulations
- Federal Specifications TT-C-555B, for interior and exterior surfaces
- TT-P-001411 for a copolymer resin cementitious paint for waterproofing concrete
- ASTM C 309 type 1 class A&B

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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