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|  |  | |  | | --- | | ***Product Description:*** |   MVB is a rapid curing, VOC-compliant, two component, 100% solids epoxy system for concrete substrates. MVB is a moisture vapor barrier that reduces the presence of moisture vapor to levels that are acceptable for the application of flooring installation systems and floor coverings. It is compatible with most flooring adhesives and cementitious underlayment. |  |  |  | |  | | --- | | Product Characteristics: | | |  |  | | --- | --- | | Color: | Clear, Light Gray, Medium Gray, Dark Gray, Beige, Tan, Black, White | | Mix Ratio: | 2:1 | | Solids: | 100% | | VOC: | 0 g/L | | Application Temp: | 50-90 F | | Coverage: | 100-200 sqft/gal | | |
|  |  | |  | | --- | | ***Advantages:*** |  * Rapid curing available when used with accelerator for faster job completion * • 2 to 1 mix ratio by volume * • 100% Solids Formulation * • Low odor makes it ideal for interior use * • One coat application * • Can be applied to 7 day old concrete |  |  |  | |  | | --- | | ***Drying Schedule*** |  |  |  | | --- | --- | | Working Time | 20-30 minutes | | Critical Recoat time | 24 hours | | Full Cure | 7 days |   Pot Life: 15-20 min @ 75°F |
|  |  | |  | | --- | | ***Typical Uses:*** |   • Concrete floors and slabs with a compressive strength of at least 2500 psi  • Where moisture vapor transmission of substrate falls between 3 lbs and 15 lbs per 1000 sqft over 24 hours using calcium chloride test per ASTM F1869  • Where the relative humidity is between 75% and 90% per ASTM F2170 or F2420, as outlined below:   |  |  | | --- | --- | | **RH LEVEL** | **90%** | | **NEW CONSTRUCTION\*** | **•** | | Above Grade | | On Grade | | Below Grade | | **EXISTING CONSTRUCTION** |  | | Above Grade | **•** | | On Grade | **•** | | Below Grade | **•** |   • Where vapor drive of porous concrete surfaces needs to be controlled  • Where low-odor applications are desired |  |  |  | |  | | --- | | **Shelf Life:** | | Part A: 12 months, unopened  Part B: 12 months **,** unopened | | Store Indoors at 65°F to 95° F | | ***Cleanup:*** | | Clean tools and equipment with acetone or xylene immediately after using. Wash hands and skin with soap or industrial hand cleaner, not with solvent. Cured material must be removed mechanically. | | ***Safety:*** | | Refer to SDS sheet before use.  Published technical data and instructions are subject to change without notice. Contact your local dealer for additional technical data and instructions.  Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling MVB. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels | |
|  |  | ***Limitations:*** |  |  |  |  |
|  |  | DO NOT PAINT OVER MILDEW. Mildew is a fungus, brown, black, gray or even white in color, and will rapidly grow through any coating applied over it. A solution of 50% household bleach and 50% water will kill the mildew. See precautions on bleach label for handling before using.  Strictly adhere to the Manufacturer’s Directions for Applications.   |  | | --- | | ***Preparation:*** | | 1. Ensure that floors are structurally sound and cured a minimum of 7 days.  2. Follow all standard OneStep recommendations for surface preparation. Remove all contaminants such as dirt, oil, paint, wax, grease, bitumens and forming, curing, and release agents, efflorescence, or other foreign matter.  3. Repair concrete and install joint sealants and fillers as necessary. Use patching materials not susceptible to moisture.  4. Mechanical surface profiling is the preferred floor preparation method for both new and existing floors. It is the only acceptable preparation method where warranties are issued. Acid etching is not recommended. Mechanically profile the floor to medium-grit sand- paper texture (CSP 3 or 4).  5. Measure MVT (moisture vapor transmission) after shot blasting using a calcium chloride test per ASTM F1869 instructions, or a relative humidity test per ASTM F2170 or F2420  6. If the moisture vapor transmission tests show that a rate of 3 lb/1000 sq ft in 24 hours or a relative humidity of 75% is exceeded, then MVB is needed prior to the application of flooring adhesives and underlayments. Note: It is recommended that a test area is completed prior to applying MVB on the entire floor to ensure that water vapor levels are sufficiently suppressed to allow floor covering installations. | | ***Application:*** | | 1. The ambient and surface temperature must be between 50 and 90° F at the time of application, and temperatures should not rise above this range during application or while the material is curing. Ambient relative humidity percentage should not exceed 80% at the time of application. Note: Higher temperatures will shorten the working and cure time of this material.  2. Mix Part A and Part B (2 to 1 by volume) together using a slowspeed drill (500 rpm) and paddle for 2-3 minutes.  3. Pour the entire mixture onto the properly prepared concrete surface immediately after mixing. Leaving the material in the pail will significantly reduce the pot life and will cause the temperature of the material to rise.  4. Because of the quick cure rate of this product, do not mix more kits than can be used within the pot life of 15–25 minutes at 75° F (24° C). Elevated temperatures decrease mix amount.  5. For application as a moisture vapor barrier, spread the mixed material onto the substrate with a notched squeegee at a rate of up to 100 square feet per gallon. Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix. Apply to the entire surface, ensuring there are no dry areas.  6. For application as a broadcast system, spread the mixed material onto the substrate with a notched squeegee at a rate of up to 200 square feet per gallon. Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix. Apply to the entire surface, ensuring there are no dry areas.  7. Allow MVB to become tack free (approximately 8-12 hours under normal conditions) before applying another flooring installation product. After 24 hrs. surface must be sanded and laitance free prior to applying next coat.  8. Flooring adhesives may be applied directly to the tack free MVB surface. | |  | |  |  |  | |  | | --- | | ***Shipping:*** | | Contact your local dealer for shipping information.   |  | | --- | | ***Testing:*** | | All surfaces are not the same. It is recommended that a sample area be installed before the start of the project. The test should be performed on site, using the proposed method by the assigned applicator to insure proper color and adhesion. A sample area should also be performed if any existing coatings are present to determine if there are any contaminants or if delaminating will occur. | | ***Packaging:*** |   **1.5 Gallon Kits:**  Part A ......................... 1 gal.  Part B.......................... 1/2 gal.  .**15 Gallon Kit**  Part A ......................... 10 gal.  Part B.......................... 5 gal. | | ***Disclaimer:*** | | The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of Terrazeco, LLC. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Contact your local dealer to obtain the most recent Product Data Information. | | ***Warranty:*** | | Terrazeco offers a full year limited warranty on materials from date of purchase. Warranty will provide free material replacement of the product in the event that Terrazeco, materials prove defective and provided materials are installed in strict compliance of **“Directions for Application”** by a certified applicator.  Terrazeco will not be responsible for any consequential damages caused by product failure.  Made in USA  http://blackbear-martialarts.com/wp-content/uploads/2013/02/tsd-us-flag.jpg | |  | |  | |