

**MOISTURE VAPOR BARRIER
FOR MOISTURE MITIGATION**



PRODUCT DATA

Volumetric Ratio	2 to 1
Coverage:	
Industrial Floors	100 Sq. Ft./Gal
Garage Floors	
with Flake Broadcast	200 Sq. Ft./ gal
Application Temperature	50-90°F
Pot life	15-20 minutes
Working Time on Floor	20-30 min
Recoat	24 hours
Shelf life	12 months

Color:
Black

Packaging:
1.5 Gallon Kits:

Part A	1gal
Part B	½gal

15 Gallon Kits:

Part A	10gal
Part B	5gal

PRODUCT DESCRIPTION

Epoxy Plus EP-MVB PLUS is a rapid curing, VOC-compliant, two component, 100% solids epoxy system for concrete substrates. EP-MVB PLUS is a moisture vapor barrier that reduces the permeance 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 underlayments, including all Epoxy Plus adhesives, primers and underlayments.

APPLICATIONS

- Rapid curing available when used with accelerator for faster job completion
- Compatible with all Epoxy Plus flooring adhesives and underlayments
- 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

WHERE TO USE

MOISTURE VAPOR BARRIER APPLICATION

- 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 ft² 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

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EXISTING CONSTRUCTION

Above Grade

On Grade

Below Grade

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- Where vapor drive of porous concrete surfaces needs to be controlled.
- Where low-odor applications are desired.

TECHNICAL DATA SHEET

125 Broad Ave, Unit B13 North Bergen, NJ 07047
(888) 361-2641 WWW.EPOXYPLUS.COM



SURFACE PREPARATION

Moisture Vapor Barrier Application:

1. Ensure that floors are structurally sound and cured a minimum of 7 days.
2. Follow all standard ACI 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 sandpaper texture (CSP 3 or 4).
5. Measure MVT (moisture vapor transmission) after shotblasting 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 ft² in 24 hours or a relative humidity of 75% is exceeded, then Epoxy Plus EP- MVB15 is needed prior to the application of flooring adhesives and underlayments.

Note: It is recommended that a test area is completed prior to applying EP-MVB PLUS on the entire floor to ensure that water vapor levels are sufficiently suppressed to allow floor covering installations.

MIXING

MIXING

1. Mix Part A (resin) component and Part B (hardener component (2 to 1 by volume) together using a slowspeed drill (500 rpm) and paddle for 2-3 minutes.
2. 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.
3. 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.

CLEAN UP

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.

APPLICATION INSTRUCTIONS

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. 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.
3. Allow EP- MVB PLUS 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 latence free prior to applying next coat.
4. If cementitious underlayment are required for the floor covering installation, prime the tack free surface of EP-MVB PLUS with primer prior to installing the underlayment. The EPMVB PLUS surface must be free of any contaminants such as dust prior to applying primer to ensure proper adhesion.
5. Flooring adhesives may be applied directly to the tack free EPMVB PLUS surface if no underlayment is required.
6. The EP-MVB PLUS creates a non porous surface when cured. Apply flooring installation materials accordingly over the top.

HEALTH AND SAFETY INFORMATION

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling EP - MVB PLUS. 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.

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PRECAUTIONS

Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Wash thoroughly after handling. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

FIRST AID

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Refer to Material Safety Data Sheet (MSDS) for further information.

PROPOSITION 65

This product contains material listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

VOC CONTENT

0 g/L or 0 lbs/gal less water and exempt solvents when components are mixed and applied per Epoxy Plus LLC instructions.

WARRANTY

Epoxy Plus LLC products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.



KEEP OUT OF REACH OF CHILDREN

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY.

BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.