



EPOXY MVB - 100

Revised May 2017

TECHNICAL DATA SHEET

HIGH SOLIDS MOISTURE VAPOR BARRIER EPOXY PRIMER SYSTEM



DESCRIPTION

Marbelite Epoxy MVB-100 is a high performance epoxy primer system designed to reduce water vapor transmission. When applied to properly prepared concrete, **Epoxy MVB-100** has shown to have improved adhesion to concrete surfaces where moisture is an issue and other high performance coatings have failed.

BENEFITS/FEATURES

- ◆ Superior adhesion for concrete affected by moisture vapor transmission.
- ◆ Excellent base coat for many urethanes and epoxies.
- ◆ Performs well where many other coatings fail.
- ◆ VOC compliant for most areas in the United States and Canada.

RECOMMENDED APPLICATIONS

Effective on applications such as...

- ◆ Auto Service Centers
- ◆ Warehouses
- ◆ Laboratories
- ◆ Aircraft Hangers
- ◆ Garages
- ◆ Basements
- ◆ Many other concrete surfaces where moisture vapor transmission is an issue.

SPECIFICATIONS/COMPLIANCES

- ◆ Meets OTC, CARB, LADCO VOC restrictions.
- ◆ Perm rating 0.065 perms @ 30 mils thickness.

TECHNICAL INFORMATION

Solids/Active Content, Percentage by weight	Proprietary
Dry Time—Tack Free	4 - 10 hours
Dry Time—Foot Traffic	12 - 24 hours
Dry Time—Heavy Traffic	24 - 48 hours
Re-Coat Time Window	8 - 24 hours
Application Temp	50°F - 80°F
Mix Ratio (a/b volume)	2:1
Pot Life	5 - 10 minutes
Coverage	200 - 250 sq. ft. / gallon
VOC (Volatile Organic Compound) Content	Less than 5 grams/Liter
Dry Appearance	Clear
<small>Testing is accordance with procedures outlined in EPA Method 24, "Volatile Organic Content VOC of Paints and Related Coatings". The solids content was determined in accordance with ASTM D 5095 and the VOC was calculated in accordance with ASTM D 3960.</small>	

MARBELITE INTERNATIONAL CORP. • 1500 Global Court • Sarasota, FL 34240
 Phone: 941-378-0860 • Toll Free: 800-348-3993 • Fax: 941-378-9832
 Website: www.marbelite.com • Email: information@marbelite.com

Epoxy MVB-100

INSTRUCTIONS FOR USE

SURFACE PREPARATION: A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP - 3 to a CSP - 5 is suggested for ultimate adhesion. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If multiple coats of **Epoxy MVB-100** are required, apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats. Fill cracks and spals with *Marbelite Quick Crack Fill*. (See *Quick Crack Fill* technical data prior to use.)

Substrate and air temperature must be no less than 40°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150°F which can cause extreme bubbling issues.

MIXING: Mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. **Mix only full, pre-packaged kits. Do not separate into smaller kits.** Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer for 2 full minutes to ensure the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

COVERAGE RATE: *First Coat:* 200—250 ft² per gallon*

*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

APPLICATION: Apply the mixed material by brush or roller with a 1/2" nap - 3/4" nap shed-free roller cover within the usable pot life time frame, at 200 - 250 sq. ft. per gallon. A second applicator on spiked shoes should be back-rolling the wet material to ensure uniform distribution. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point, it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. When applying, do not exceed 400 ft² per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. **DO NOT USE ON BRICK.**

PRECAUTIONS AND LIMITATIONS

- ◆ This product will freeze during storage. Store at temperatures above 40°F.
- ◆ All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- ◆ If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- ◆ This product is NOT intended for use over vegetable oil, animal fat, or synthetic oil contaminated concrete.
- ◆ This product can withstand exposure to many common solvents and chemicals.
- ◆ It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- ◆ Please be aware that this product when cured, may be slippery when wet. An anti-slip additive, such as *Marbelite Slip-Grip*, can be added to reduce slip hazards.
- ◆ All new concrete must be cured for at least 28 days prior to application.
- ◆ It is not recommended to thin this product. Improper thinning may cause sealer to delaminate in a short time frame.
- ◆ This product may darken the surface of many new and existing concrete slabs. Test prior to use.

CLEAN UP: Use xylene. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL: Dried, cured material may be removed with a commercial epoxy stripper or by using a diamond grinding method, sandblasting method, or similar mechanical action.

SHELF LIFE: Up to one year from manufacture date in its original, unopened container, stored at room temperature.

PACKAGING: Available in 3 gallon kits. Also available in 1.5 gallon, 4.5 gallon, and 15 gallon kits upon request.

SPECIAL NOTES: Always read all technical information, label, and SDS (MSDS) prior to use. This information can be found online or by calling customer service at the number below.

LIMITATION OF LIABILITY

Marbelite International Corp, "Seller" warrants that if any goods supplied prove to be defective in workmanship or material, that Seller shall replace them or refund their purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability of the product for its intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Seller be liable for incidental, consequential, or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Seller for any claim arising out of the use or sale of defective product shall be for the User's purchase price.

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