

# PRODUCT DATA SHEET

## Sika® MB

### Solvent Free, Epoxy Moisture Barrier

#### PRODUCT DESCRIPTION

Sika® MB is a 2-component, solvent free, low viscosity, epoxy for use under wood flooring products, self leveling underlayments, floating floors and other flooring systems that require protection from subfloor moisture.

#### USES

- Moisture barrier to help control moisture propagation in cementitious substrates with a moisture content not exceeding 6 % by Tramex Method, residual moisture up to 100 % R.H. or 25 lb/1,000 ft<sup>2</sup>/24 h (11.4 kg/92.9m<sup>2</sup>/24 h)
- For substrate consolidation on concrete, cement and gypsum screeds
- Adhesion promoter for old and new adhesive residues in conjunction with other Sika® products
- Suitable on concrete, cement, self-leveling and gypsum substrates, OSB, plywood, quarry and terrazzo tiles, water-soluble adhesive and cutbacks

#### CHARACTERISTICS / ADVANTAGES

- Solvent-free (100 % solids)
- Easy roller applied application, low viscosity
- Convenient, easy to mix packaging
- Shorter construction periods
- Excellent penetration and stabilization of the substrate
- Reduction of adhesive consumption
- Suitable for use on floors with radiant heating
- Compatible with SikaBond® and DriTac® flooring adhesives, SikaLevel® products
- Can be used below floating floors
- Class I vapor retarder at 0.06 perm (1 coat)

#### ENVIRONMENTAL INFORMATION

LEED V4.1 California Department of Public Health (CDPH) Standard Method v1.2: Private Office, School Classroom, and Residential

#### APPROVALS / STANDARDS

- Meets ASTM F3010

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Two component epoxy
<b>Packaging</b>	2.64 gal (10 L) pail
<b>Color</b>	Blue
<b>Shelf Life</b>	24 months from date of production if stored properly in undamaged sealed containers
<b>Storage Conditions</b>	Store dry at 50–77 °F (10–25 °C). Protect from moisture.
<b>Density</b>	69 lb/ft <sup>3</sup> (1.1 kg/l)

## TECHNICAL INFORMATION

Shore D Hardness	7 days	83 (mixed A&B)	(ASTM D-2240)
Compressive Strength	7 days	10,000 psi (69 MPa)	73 °F (23 °C) 50 % R.H.
Permeability to Water Vapor	0.06 g/m <sup>2</sup> -24hour-mmHG		(ASTM E-96)
Service Temperature	-40–158 °F (-40–70 °C)		

## APPLICATION INFORMATION

### Coverage

	Coverage per pail
Moisture barrier	250–300 ft <sup>2</sup> (23.2–27.9 m <sup>2</sup> )
Adhesion promoter or surface consolidator	400–450 ft <sup>2</sup> (37.2–41.8 m <sup>2</sup> )

(Coverage figures do not include allowance for surface profile and porosity or material waste).

Application	Recommended Coatings	Results in
Moisture barrier only	min. 1	Mirror like finish
Substrate consolidation only	min. 1	Good penetration
Adhesion promotion only	min. 1	Mirror like finish
Moisture barrier + substrate consolidation	min. 2	Mirror like finish
Moisture barrier + adhesion promotion	min. 2	Mirror like finish

MUST produce a monolithic, pinhole-free finish with a continuous film. The need for multiple coats is directly related to surface absorption.

Pot Life	50 °F (10 °C)	~ 60 minutes
	68 °F (20 °C)	~ 30 minutes
	86 °F (30 °C)	~ 15 minutes
Cure Time	50 °F (10 °C)	18 hours
	73 °F (23 °C)	8 hours
	86 °F (30 °C)	6 hours

\* Minimum curing time, prior to walking on primer/or for applying SikaBond® or Sika® Level.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

- Proper coverage must be used to achieve moisture barrier properties.
- Will not act as a moisture barrier for gypsum screeds. Gypsum based subfloors are very susceptible to excess moisture and will be degraded if exposed to excess moisture from below or above.
- Only protects from moisture coming from below the concrete.
- Will not prevent hydrostatic pressure.
- Must not be applied to a visibly wet substrate.
- Does not prevent moisture occurring between the epoxy and the floating floor due to secondary sources of moisture or acclimation, e.g. water condensation.
- Is not suitable for use with bonded systems due to possible curing and adhesion problems.
- Sika® recommends the use of Sika® Level products on top of it.
- Floor covering manufacturer's and Wood flooring manufacturer's recommendations, like room humidity

levels and wood acclimation requirements should be strictly followed.

- Sika® does not make any standing recommendations as to the structural integrity of old adhesive residues or subflooring materials that are not manufactured by Sika®.
- When left on the substrate for more than the maximum allowable open time of 36 hours, prior to placing the adhesive, the surface must be thoroughly cleaned and mechanically prepared (i.e. screened sand) and solvent wiped. Failure to do this, may result in adhesion problems. For detailed instruction contact our Technical Service. When used in conjunction with SikaBond®, Sika® MB does not need to be broadcasted with sand.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- Substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust, and loose or friable particles. Paint, laitance, and other poorly adhering contents must be mechanically removed.
- Substrate must have an open textured surface to allow Sika® MB to penetrate. (i.e. Blast cleaning, grinding are considered acceptable means to achieve the desired surface profile. Acid and chemical etching are not acceptable).
- At least 50 % of the surface area must be cleared of residual adhesive and cutbacks. (i.e. by grinding or mechanical substrate preparation)
- Old cutback can contain asbestos which is dangerous for the health so do not grind, sand or blast. Refer to the Resilient Floor Covering Institute's publication "recommended work practice for removal of resilient floor coverings" for instruction.
- Minimum substrate compressive strength > 1,160 psi. Tensile Bond strength > 116 psi at the time Sika® MB is applied.
- Repair with Sika® Level SkimCoat or SikaQuick® mortar before priming.
- The floor must be cleaned with an industrial vacuum prior to installation of the Sika® MB.
- On fiber reinforced concrete, fibers should be flamed off the surface prior to application of Sika® MB as a moisture barrier.
- Before overall installation begins, Sika® recommends the application of several small test patches to determine primer application requirements and

acceptability of final product performance.

- All moving joints and moving cracks must be honored up through the floor preparation and floor covering installation, finishing with an appropriate Sika flexible sealing compound. Dormant hairline cracks can be covered with Sika MB. Dormant joints and dormant cracks greater than a hairline that will not be honored must be pre-filled in strict accordance with the installation instructions provided by the Sika Technical Service Department. Dormant hairline cracks can be covered with an appropriate Sika flexible sealing compound. Once the dormant cracks and dormant joints have been properly filled, broadcast sand to refusal, and allow these areas to cure thoroughly. Remove all excess sand before proceeding with the Sika MB installation.

### MIXING

- Add one full can of component A to one full can of component B then mix with an electric drill and mixing (Jiffy Mixer type) paddle at a low speed to reduce air entrainment (300–400 rpm). Using a paint stick or similar is not sufficient to mix the primer.
- A minimum mixing time of 3 minutes shall be observed; mixing shall continue until a homogeneous mix has been achieved.
- Scrape sides of pail with paint stick or paddle to ensure all contents are thoroughly mixed together.
- Unmixed material applied to the floor will not cure properly.

### CLEANING OF TOOLS

- Clean all tools and application equipment with cleaning solvent (Xylene, MEK are effective).
- Hardened/cured material can only be removed mechanically.

## OTHER RESTRICTIONS

See Legal Disclaimer.

#### Product Data Sheet

Sika® MB

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## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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