



## PRODUCT DATA SHEET

# Sika® MB EZ Rapid

One component rapid drying moisture barrier, adhesion promoter, and substrate consolidator for flooring on critical substrates

### PRODUCT DESCRIPTION

One-Component, Rapid-Drying, Polyurethane Resin, Moisture Mitigation System and Substrate Solidifier. Sika® MB EZ Rapid can be used as a fast-curing moisture mitigation system for interior use only on cement-based substrates up to 98% RH or 18 lbs./1000 sq. ft./24 hrs. before applying SikaLevel® underlayments and SikaBond® adhesives. Sika® MB EZ Rapid can be used as a solidifier over a variety of critical substrates, such as adhesive residues and gypsum substrates.

### USES

Moisture barrier to control moisture vapor emission rates in cementitious substrates not exceeding up to 93% RH/12 #CC as a one-coat system or above 93% RH/12 lbs./1000 sq. ft./24 hrs. up to 98% RH/18 lbs./1000 sq. ft./24 hrs. as a two-coat system. For substrate consolidation on concrete, cement, and gypsum screeds. Adhesion promoter for old and new adhesive residues in conjunction with other Sika® products. For glue assist applications using a single coat in combination with SikaBond® Construction Adhesive, Sikaflex®-11FC, and SikaHyflex®-150 LM. Suitable on concrete, cement, self-levelling and gypsum substrates, OSB, plywood, water-resistant adhesive, and cutbacks.

### CHARACTERISTICS / ADVANTAGES

- Rapid drying allows for same-day installation
- Solvent-free low VOC formula
- Low viscosity offers excellent penetration to highly porous substrates
- High coverage allows for cost saving
- Single component formula
- Colored formula to ensure uniform coverage
- Solidifier of weak substrates
- Can be used as a vapor retarder in place of felt paper on wooden subfloors for glue assist applications
- Will prevent moisture related issues like cupping if substrate moisture levels are below Sika® MB EZ Rapid's acceptable levels
- Excellent adhesion promoter to a wide range of residues
- Class II vapor retarder  $>0.1$  perm and  $\leq 1.0$  perm (1 coat)
- Permeance (ASTM E96):  $\leq 0.4$  perm (2 coats)

### ENVIRONMENTAL INFORMATION

- May contribute to LEED v4 in categories:
  - EQc2 - 3 points - Low-Emitting Materials
  - MRc2 - 1 point - Environmental Product Declaration
  - MRc4 - 1 point - Material Ingredients
- EMICODE: EC 1PLUS - very low emission, regulated

## PRODUCT INFORMATION

<b>Packaging</b>	2.5 gal. (9.46 L) plastic jug
<b>Shelf Life</b>	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
<b>Storage Conditions</b>	Store dry at 41–95 °F (5–35 °C). Condition material to 65–85 °F (18–30 °C) before using.

## SYSTEM INFORMATION

### System Structure

Substrate	Yes/No	Comment
Concrete	Yes	28 days old
Terrazzo	Yes	Must be mechanically prepared
Gypsum	Yes	1 coat only
OSB	Yes	1 coat only
Plywood	Yes	1 coat only
Wood Subfloor Panels	Yes	1 coat only

Covering Type	Yes/No	Needed Materials*	Moisture Mitigation
Hardwood	Yes	Polyurethane/Hybrid Polyurethane/MS	1 coat: 93% RH, 2 coats: 98% RH
LVT, VCT**	Yes	Floating/High performance Resilient Adhesive	1 coat: 93% RH, 2 coats: 98% RH
Comm. Carpet/Carpet Tile**	Yes	High performance Resilient Adhesive	1 coat: 93% RH, 2 coats: 98% RH
Sheet Vinyl**	Yes	High performance Resilient Adhesive	1 coat: 93% RH, 2 coats: 98% RH
Ceramic Tiles	Yes	SikaLevel-02 EZ Primer, Tile Setting Mortar	1 coat: 93% RH, 2 coats: 98% RH
Porcelain/Natural Stone	Yes	SikaLevel-02 EZ Primer, Tile Setting Mortar	1 coat: 93% RH, 2 coats: 98% RH
Cementitious SLU's/Patches	Yes	SikaLevel-02 EZ Primer	1 coat: 93% RH, 2 coats: 98% RH
Gypsum SLU's/Patches	Yes	SikaLevel-02 EZ Primer	1 coat: 93% RH, 2 coats: 98% RH
Acoustical Rubber Underlayment	Yes	Polyurethane/Hybrid Polyurethane/MS	1 coat: 93% RH, 2 coats: 98% RH
Rubber Flooring	No	-	-

\*Follow open times limitations in application section

\*\*Treat Sika® MB EZ Rapid as a non-porous substrate. For wet and semi-wet adhesive installations, SikaLevel®-02 EZ Primer should be used and the surface smoothed with a suitable levelling compound prior to the use of resilient adhesives.

<b>Coverage</b>	400 sqft. per gallon based on one coat system. 1000 sqft. per unit based on one coat system. 500 sqft. per unit based on two coat system.
<b>Cure Time</b>	1 - 2 hours
<b>Waiting / Recoat Times</b>	1 - 48 hours for SikaLevel-02 EZ Primer and SikaBond Adhesives

## 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

- For interior use only.
- Substrates must be profiled to achieve CSP 2 – 3.
- Subfloors must be visibly dry, porous, smooth, sound, clean, dust free, free of friable areas, and free of any contaminants which may result in the lack of adhesion.
- If using pressure-sensitive adhesives, allow adequate time to “flash off” prior the installation of the floor covering. Failure to allow these adhesives to reach their intended high-tack state will result in the adhesives not drying and remaining wet/uncured.
- A cementitious layer may be needed prior to the use of pressure-sensitive adhesives to ensure a smooth finish, preventing telegraphing through the surface of specific flooring types.
- Old water-soluble adhesives should be removed completely.
- Old water-resistant adhesives should have all friable areas mechanically removed.
- Sika® MB EZ Rapid should not be used as a moisture mitigation system on gypsum-based substrates
- When used as a vapor retarder in place of felt paper on wooden subfloors, the wood subfloor Moisture content should not exceed 20%.
- Do not use more than one coat of Sika MB EZ Rapid on any wooden subfloor system.
- Concrete must support a minimum adhesion strength of 150 psi (1 MPa) when tested per ASTM D-4541 (tensile bond test).
- Before applying Sika® MB EZ Rapid, a Moisture Vapor Emission Rate test per ASTM F-1869 or relative humidity test of the concrete, using ASTM F-2170 must be obtained.
- Where substrates exhibit an RH reading over 98% or a Moisture Vapor Emission Rate (MVER) of over 18 lb. using a calcium chloride test (ASTM F-1869), Sika® MB or Sika MB Redline should be used.
- Substrate temperature must be at least 5°F away from the dew point during application and drying to avoid condensation on the surface.
- Do not use Sika® MB EZ Rapid where hydrostatic pressure conditions exist or where moisture vapor emissions exceed the recommended levels.
- Covering products must be applied within the Sika MB EZ Rapid open window or the surface must be re-prepared. See application section for more detail.

## 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.

### REGULATION (EC) NO 1907/2006 - REACH

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All concrete surfaces must have an open textured surface to allow Sika® MB EZ Rapid to penetrate the surface and function properly as a moisture barrier or substrate consolidator. All substrates must be porous per ASTM F3191, dry, stable, sound, and free of all contaminants such as grease, oil, paint, wax, dust, curing, and sealing compounds that will interfere with the adhesion of Sika® MB EZ Rapid. All loose friable material, including preparation residue, must be completely removed using a vacuum. Water-soluble adhesive cutback should be removed completely. Water-resistant cutback adhesive loose material and ridges should be removed. Old asphaltic cutbacks can contain asbestos which is dangerous for the health so do not grind, sand, or blast. Moisture vapor emission rates of the substrate should comply with and meet the requirements of Sika® MB EZ Rapid. Before overall installation begins, Sika® recommends the application of several small test patches to determine primer application requirements and the acceptability of final product performance.

## APPLICATION

- Stir or shake before use.
- Apply Sika® MB EZ Rapid uniformly (crosswise) to the substrate using a medium ¼" nap roller, ensuring that a monolithic coat is achieved over the entire surface.
- A minimum waiting time of 1 hour (or dry to the touch) should be performed between a two-coat application of Sika® MB EZ Rapid.
- After a drying time of approx. 1 hour (or dry to the touch) from the last coat applied, prime with Sika Level®-02 EZ Primer prior to the installation of SikaLevel® underlayments or patching compounds. If SikaLevel®-02 EZ Primer is not applied within the first 48 hours after drying, abrasion of the surface and solvent wiping without affecting the moisture mitigation properties should occur.
- SikaBond flooring adhesives can be installed directly to Sika MB EZ Rapid after a drying time of at least 2 hours and within 48 hours. If SikaBond® adhesives are not applied within the first 48 hours after drying, abrasion of the surface and solvent wiping without affecting the moisture mitigation properties should occur.
- When applied as a single coat, Sika® MB EZ Rapid can be used as a vapor retarder on wooden subfloors for glue assist applications. Adhesive must be applied within the Sika® MB EZ Rapid open time of 48 hours followed with the nailing of the wood flooring.

## CLEANING OF TOOLS

Clean all tools and application equipment with cleaning solvent. Hardened/cured material can only be removed mechanically.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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.

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### Product Data Sheet

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