

**Product Data Sheet**

Identification no.  
Edition 11.30.2004  
Sika Primer MB

# Sika® Primer MB

## Primer and Moisture Regulator for Wood Floor Bonding with SikaBond® Adhesives on critical Substrates

**Description** Sika® Primer MB is a 2-component, no VOC, solvent free, low viscosity, epoxy primer for use under wood flooring products that require protection from sub-floor moisture.

**Where to Use** *Sika® Primer MB in conjunction with SikaBond® Wood Floor Adhesives is used as:*

- Moisture regulator:  
To help control osmotic moisture propagation in cementitious substrates with a moisture content up to 4% CM method (approx. 6% Tramex)
- Substrate consolidator:  
On concrete, cement, gypsum screeds and old substrates
- Adhesion promoter:  
For old adhesive residues

**Characteristics/**

- Advantages**
- Regulate moisture
  - Solvent-free (100% solids)
  - Easy roller applied application
  - Shorter construction periods
  - Excellent penetration and stabilization of the substrate
  - Reduction of adhesive consumption
  - Suitable on old substrates when prepared appropriately
  - Suitable for use on floors with in-flooring heating
  - Low viscosity
  - Compatible with SikaBond wood flooring adhesives

**Technical Data**

**Shelf Life** 24 months from date of production if stored properly in undamaged sealed containers, in dry conditions at temperature between 50°F (10°C) and 77°F (25°C).

**Colors** Blue Tint.

**Packaging** 2.64 gallons

**Chemical Base** Two component epoxy

**Density** 9.14 lbs/gal (1.1 kg/l)

**Cure Time** Minimum curing time, prior to walking on primer/or for applying SikaBond Adhesives:

At 50°F (10°C)	18 hours
At +68°F (20°C)	12 hours
At +86°F (30°C)	6 hours

When Sika®Primer MB is left for more than 36 hours, the surface must be thoroughly cleaned and checked for any damage before proceeding.

**Service Temperature** -40°F to +158°F

**Compressive Strength** 10,000 psi (after 7 days, at 73°F [23°C] and 50% RH)

**Shore D Hardness** 83 (after 7 days, at 73°F [23°C] and 50% RH)



## Application Details

<b>Coverage</b>	Coverage is approximately 250-300 square feet per pail, depending on substrate porosity. No dry spots should exist after application is complete – and a shiny film should exist throughout the entire floor area to ensure sufficient moisture barrier properties. Only one coat is necessary for moisture regulation if a proper shiny surface is obtained. Two coats of primer are required if the primer is used as a surface consolidator as well as a moisture regulator. When applying 2 coats estimate 300 square feet per pail – realizing the first coat will give less coverage due to surface porosity and the second coat higher coverage. For small projects that require a 2 coat application it will be necessary to use two pails because material will cure prior to application of second coat. When used as an adhesive promoter or surface consolidator alone coverage will be approximately 400-450 square feet per pail depending on substrate porosity – again, no dry spots should exist after application.
<b>Substrate Quality</b>	Substrate must be clean, even, free from dust, grease and oil. Laitance and sections that are not structurally sound must be mechanically removed. Compressive strength > 1160 psi. Tensile Bond strength > 116 psi. Standard construction rules as well as instructions of wood floor- and subfloor manufacturers must be complied with.
<b>Substrate Preparation</b>	<p>All concrete surfaces must have an open textured surface to allow Primer MB to penetrate the surface and function properly as a moisture barrier or surface consolidator. Substrates must be structurally sound and solid, surface dry, and thoroughly clean and free of laitance, oil, wax, grease, paint, latex compounds, curing and sealing compounds, and any contaminant that could act as a bond breaker. Concrete, cement based, gypsum based sub-floors can be mechanically prepared to achieve an open textured surface – blastcleaning or grinding with a diamond cup wheel is appropriate. Acid etching is not acceptable. Thoroughly clean the floor with an industrial vacuum prior to installation of the Primer MB. Consult level/patch system manufacturer regarding priming prior to the placement of materials.</p> <p>If surface contains asphalt (cutback) adhesive follow the Resilient Floor Covering Institute “Recommended Work Practices” for removal. When the asphalt (cutback) adhesive is sufficiently removed use the Sika Primer MB to help promote adhesion to the subfloor – or use an industry approved levelling compound over the cutback residue. Due to differences in asphalt based adhesive types and performance capabilities; applicator must verify that preparation of the surface is sufficient prior to using Primer MB or patch/level compound. For unknown substrates please contact Sika Technical Services for best practices at 800-933-SIKA. Floors with other adhesive residue: Must have a minimum of 50% of the old adhesive removed – regularly distributed – this can be done by grinding or other mechanical methods. All remaining adhesive residue must be structurally sound and securely bonded to sub-flooring.</p> <p>On fibre reinforced concrete, plastic fibres should be flamed off the surface, prior to application of Sika® Primer MB as moisture regulator. Please contact our Technical Service for a project-specific advice.</p>
<b>Application Conditions/Limits</b>	
<b>Substrate Temperature</b>	During laying and until Sika® Primer MB has fully cured, substrate temperature should be above 50°F (10°C) and in case of floor heating below 86°F (30°C). Application temperature of substrate must be minimum 5°F (-15°C) above the dew point! For substrate temperatures the standard construction rules apply.
<b>Air Temperature</b>	Room temperature should be above 50°F (10°C) and below 86°F (30°C). For ambient temperatures the standard construction rules apply.
<b>Substrate Humidity</b>	Subfloor moisture content should not exceed 4% when measured using the CM method or 6% when measured with a Tramex moisture meter.



## Application Instructions

<b>Mixing</b>	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.						
<b>Mixing Time</b>	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.						
<b>Application</b>	After mixing part A and B completely to a homogeneous mixture – pour contents of pail onto the floor for best working time. <b>Attempting to work from the pail will reduce working time – see below pot life chart.</b> Apply Sika® Primer MB uniformly (crosswise) to the substrate using a medium nap roller, ensuring that a continuous coat is achieved over the entire surface (a mirror finish should be achieved). If Sika® Primer MB is used as a moisture regulator as well as substrate consolidation, 2 coats are necessary. A waiting time of minimum 8 hours and maximum 36 hours should be observed between applications of Sika® Primer MB. If primer has cured for 8 hours (depending on room and slab temperature) and has only a tacky surface remains – then second primer step of a 2-coat system can be applied. <b>Note: If primer is still very soft, then let more time elapse until only a tacky surface exists – then apply second coat.</b>						
<b>Cleaning of Tools</b>	Clean all tools and application equipment with cleaning solvent (xylene, MEK are effective). Hardened/cured material can only be removed mechanically.						
<b>Potlife (max. open time)</b>	If primer is left in pail after mixing: <table border="1" data-bbox="594 667 977 840"> <tr> <td>At 50°F (10°C)</td> <td>~ 60 minutes</td> </tr> <tr> <td>At +68°F (20°C)</td> <td>~ 30 minutes</td> </tr> <tr> <td>At +86°F (30°C)</td> <td>~ 15 minutes</td> </tr> </table>	At 50°F (10°C)	~ 60 minutes	At +68°F (20°C)	~ 30 minutes	At +86°F (30°C)	~ 15 minutes
At 50°F (10°C)	~ 60 minutes						
At +68°F (20°C)	~ 30 minutes						
At +86°F (30°C)	~ 15 minutes						

## Limitations

- Primer MB can only be over-coated after it has cured thoroughly with only a slight surface tackiness remaining.
- Proper coverage must be used to achieve moisture regulator properties.
- Primer MB will not act as a moisture regulator for gypsum screeds.
- Gypsum based sub-floors are very susceptible to excess moisture and will be degraded if exposed to excess moisture from below or above.
- Primer MB will not prevent damage to gypsum based sub-floors that are exposed to excess moisture levels.
- Sika recommends the use of Portland Cement underlayments for best results. Consult level/patch system manufacturer regarding priming prior to the placement of materials.
- Primer MB will not prevent hydrostatic head.
- Wood flooring manufacturer's room humidity levels and wood acclimation requirements should be strictly followed.
- Sika only recommends the use of Primer MB with SikaBond adhesive systems.
- Sika does not make any standing recommendations as to the structural integrity of old adhesive residues or sub-flooring materials that are not manufactured by Sika.
- Primer MB must not be applied to a visibly wet substrate.
- Subfloor must be a minimum 5F (3C) above the dew point temperature prior to application.
- Primer MB is meant for indoor use only.

When Sika Primer MB is left for more than 36 hours, the surface must be thoroughly cleaned and checked for any damage before proceeding. Wood floor installation in un-insulated areas, basements and ground without basement only with moisture regulator System Sika® Primer MB per requirements of the appropriate SikaBond technical data sheet. For detailed instructions consult the Product Data Sheets or contact our Technical Service. When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MB does not need to be broadcasted with sand.



## Application Conditions/Limits

**Protective Measures** To avoid rare allergic reactions, we recommend the use of butyl rubber/nitril rubber gloves. Change soiled work clothes and wash hands before breaks and after finishing work.

**Important Notes** Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

KEEP CONTAINER TIGHTLY CLOSED  
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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 technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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 OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Visit our website at [www.sikausa.com](http://www.sikausa.com)

1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers.

For the location of your nearest Sika sales office, contact your regional center.

**Sika Corporation**  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: 800-933-7452  
Fax: 201-933-6225

**Sika Canada Inc.**  
601 Delmar Avenue  
Pointe Claire  
Quebec H9R 4A9  
Phone: 514-697-2610  
Fax: 514-694-2792

**Sika Mexicana S.A. de C.V.**  
Carretera Libre Celaya Km. 8.5  
Corregidora, Queretaro  
C.P. 76920 A.P. 136  
Phone: 52 42 25 0122  
Fax: 52 42 25 0537

