

## Sika® Primer MB

Primer and moisture control for wood floor bonding with elastic SikaBond® adhesives on difficult substrates

### Product Description

Sika® Primer MB is a two part, solvent free, low viscosity, epoxy resin primer.

### Uses

Sika® Primer MB is used in conjunction with SikaBond® Wood Floor Adhesives for:

- Moisture control:  
For cementitious substrates with a moisture content up to 4% CM
- Substrate consolidation:  
On concrete, cement and anhydrite screeds and refurbished substrates
- Adhesion promotion:  
For broadcast mastic asphalt and on old adhesive residues

### Characteristics / Advantages

- Solvent free
- Easy to apply
- Allows faster completion
- Good penetration and stabilisation of the substrate
- Reduction of adhesive consumption
- No broadcasting of the primer is necessary
- Suitable for refurbishing existing substrates
- Suitable for use with subfloor heating
- Low viscosity
- Compatible with SikaBond®-Systems for wood floors

### Product Data

#### Form

**Colour** Bluish

**Packaging** 10 kg metal pails.

#### Storage

**Storage Conditions / Shelf-Life** 24 months from date of production if stored properly in undamaged and unopened, original sealed containers, in dry conditions at temperatures between +10 °C and +25 °C.

#### Technical Data

**Chemical Base** 2-part epoxy

**Density** 1.1 kg/l



<b>Curing Speed</b>	Minimum curing time, prior to walking on / wood floor bonding:	
	+10 °C	18 hours
	+20 °C	12 hours
	+30 °C	6 hours
Note: When Sika® Primer MB is left for more than 36 hours, the surface must be thoroughly cleaned and checked for any defects etc. before proceeding with the wood flooring.		

<b>Service Temperature</b>	-40 °C to +70 °C
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### Mechanical / Physical Properties

<b>Compressive Strength</b>	~ 70 N/mm <sup>2</sup> (after 7 days, +23 °C / 50% r.h.)	(EN 196 part 1)
<b>Shore D Hardness</b>	~ 83 (after 7 days, +23 °C / 50% r.h.)	(DIN 5350)

### Resistance

<b>Thermal Resistance</b>	
Exposure*	Dry heat
Permanent	+50 °C
Short-term max. 7 d	+80 °C

Note: In order to avoid damage to the installed wood floor elements, surface temperature should not exceed +26 °C.

### System Information

#### Application Details

<b>Consumption / Dosage</b>	Concrete / cementitious screed and Anhydrite screed / anhydrite flowable screed: 400 - 600 g/m <sup>2</sup> dependent on the absorbency of the substrate.  Broadcast mastic asphalt: 250 - 350 g/m <sup>2</sup>
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<b>Substrate Quality</b>	Substrate must be clean, even, free from dust, oil and grease. Weak areas, voids etc. and cement laitance must be removed back to a sound substrate.  Compressive strength: > 8 N/mm <sup>2</sup> Tensile Bond strength: > 0.8 N/mm <sup>2</sup>  Adhesive residues must be removed to less than 50% of surface (i.e. removed by grinding etc.).  Preliminary bond strength testing is recommended.  The instructions of the screed floor manufacturer must be complied with.
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<b>Substrate Preparation</b>	Concrete / cementitious screed: Must be ground and thoroughly cleaned by vacuum.  Anhydrite screed / Anhydrite flowable screed: Must be ground and thoroughly cleaned by vacuum shortly before coating.  Mastic asphalt: Must be broadcast to excess and cleaned by vacuum.  On fibre reinforced concrete any exposed fibres must be burnt off the surface.  Please contact our Technical Department for any project specific advice required.
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## Application Conditions / Limitations

**Substrate Temperature** During application and until Sika® Primer MB has fully cured the substrate temperature must be > +10°C and when used with under floor heating < +30°C.  
Application temperature of substrate must be minimum 3°C above the dew point!  
For substrate temperatures the standard construction rules are relevant.

**Ambient Temperature** Room temperature must be > +10°C and < +30°C.

**Substrate Humidity** Permissible substrate moisture content:

- 4% CM for cementitious screed (ca. 6% Tramex / Gravimetric weight percent)
- 0.5% CM for anhydrite screed
- 3-12% CM for magnetite flooring

Permissible substrate moisture content when used with under floor heating:

- 4% CM for cementitious screed (~ 6% Tramex / Gravimetric weight percent)
- 0.3% CM for anhydrite screed
- 3-12% CM for magnesite flooring

No rising moisture content according to ASTM (Polyethylene-sheet):

For checking the moisture content use the "Rubber Mat Test" according to ASTM (at least 1 m x 1 m of polyethylene sheet, taped to the concrete surface) This should be left in position for at least 24 hours, prior to removal and testing. Any condensed vapour transmissions are thereby detected.

Note: For moisture content and quality of substrates the guidelines of the wood floor manufacturer as well as standard construction rules must be observed.

**Relative Air Humidity** 85% max.

## Application Instructions

### Mixing

Mixing ratio:

	Part A	Part B
Parts by weight	3	1
Parts by volume	100	37

Add part A to part B in the correct ratio using an electric stirrer at a low speed (~ 300 - 400 rpm).

### Mixing Time

A minimum mixing time of 3 minutes shall be observed; stirring shall continue until a homogeneous mix has been achieved. Pour mixed material into a clean container and mix again.

### Application Method / Tools

Apply Sika® Primer MB uniformly (in two directions 90°) to the substrate using a nylon roller (medium pile 12 - 14mm), ensuring that a continuous coat is achieved over the entire surface (gives a mirror like finish).

Application	Rec. coatings	Remarks
Moisture barrier only	Minimum 1 x	Mirror like finish
Substrate consolidation only	Minimum 1 x	Good penetration
Adhesion promotion only	Minimum 1 x	Mirror like finish
Moisture barrier + substrate consolidation	Minimum 2 x	Mirror like finish
Moisture barrier + adhesion promotion	Minimum 2 x	Mirror like finish

A waiting time of minimum 8 hours and maximum 36 hours must be observed between coats of Sika® Primer MB.

<b>Cleaning of Tools</b>	Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be mechanically removed.						
<b>Potlife</b>	<table border="1"> <tr> <td>+10 °C</td> <td>~ 60 minutes</td> </tr> <tr> <td>+20 °C</td> <td>~ 30 minutes</td> </tr> <tr> <td>+30 °C</td> <td>~ 15 minutes</td> </tr> </table>	+10 °C	~ 60 minutes	+20 °C	~ 30 minutes	+30 °C	~ 15 minutes
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<b>Notes on Application / Limitations</b>	<p>When Sika® Primer MB is left for more than 36 hours, the surface must be thoroughly cleaned and checked for any defects before proceeding with overcoating.</p> <p>Do not apply Sika® Primer MB on substrates in which significant vapour pressure may occur.</p> <p>Freshly applied Sika® Primer MB should be protected from damp, condensation and water for at least 24 hours.</p> <p>Avoid puddles on the surface with the primer.</p> <p>Wood floor installation in areas without a damp proof membrane can only be undertaken with moisture regulator System Sikafloor® EpoCem® and Sika® Primer MB as a vapour barrier. For detailed instructions consult the Product Data Sheets or contact our Technical Service Department.</p> <p>Do not apply Sika® Primer MB on substrates where existing bitumen/tar based membranes, layer or adhesives are present. The use of the Sika® Resiplot System may be considered. Refer to our Technical Department for advice.</p> <p>When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MB must not be broadcast with sand. Sika® Primer MB is only recommended with SikaBond-T52 / -T52FC / -T54 / -T54FC / T55.</p>						
<b>Notes</b>	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.						
<b>Local Restriction</b>	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the product uses.						
<b>Health and Safety Information</b>							
<b>Protective Measures</b>	<p>To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.</p> <p>Local regulations as well as health and safety advice on packaging labels must be observed.</p>						
<b>Ecology</b>	Refer to Material Safety Data Sheet						
<b>Transportation Class</b>	Refer to Material Safety Data Sheet						
<b>Important Notes</b>	<p>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.</p> <p>Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the material safety data sheet.</p>						
<b>Toxicity</b>	Refer to Material Safety Data Sheet						

## Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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