

# PRODUCT DATA SHEET

## Sika® Primer MB

### SOLVENT-FREE EPOXY PRIMER AND MOISTURE BARRIER FOR WOOD FLOOR BONDING

#### DESCRIPTION

Sika® Primer MB is a 2-component epoxy primer and moisture barrier for SikaBond wood flooring adhesives applied on difficult substrates.

#### USES

Sika® Primer MB is designed for use in conjunction with SikaBond wood flooring adhesives:

- For moisture control on cement-based substrates with moisture contents of up to 6 % CM.
- For substrate consolidation on concrete, cement and anhydrite screeds and refurbished substrates.
- For adhesion promotion for broadcast mastic asphalt and on old adhesive residues.

#### CHARACTERISTICS / ADVANTAGES

- 2-Component
- Reactive epoxy
- Solvent-free
- Easy to apply, low viscosity
- Allows quick completion
- Good penetration and stabilization of the substrate
- Suitable for refurbishing existing substrates
- Suitable for use with underfloor heating

#### PRODUCT INFORMATION

<b>Composition</b>	2-Component, epoxy resin compound		
<b>Packaging</b>	Component A	7.5 kg metal pail	
	Component B	2.5 kg metal pail	
	Component A+B	10.0 kg metal pail	
<b>Colour</b>	Blue		
<b>Shelf life</b>	Sika® Primer MB has a shelf life of 24 months from the date of production, if stored properly in undamaged, original, sealed packaging, and if the storage conditions are met.		
<b>Storage conditions</b>	Sika® Primer MB shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.		
<b>Density</b>	Component A	~1.10 kg/l	(ISO 2811-1)
	Component B	~1.00 kg/l	
	Mixed	~1.10 kg/l	

## TECHNICAL INFORMATION

Shore A Hardness	~80 (after 7 d)	(ISO 868)
Compressive Strength	~70 N/mm <sup>2</sup> (after 7 d)	(EN 196 part 1)
Temperature Resistance	Sika® Primer MB can be permanently exposed to dry heat ≤ +50 °C and temporarily exposed to dry heat ≤ +80 °C. Note: In order to avoid damage to the installed wood floor elements, surface temperature must not exceed +25 °C.	
Service Temperature	-40 °C min. / +70 °C max.	

## APPLICATION INFORMATION

Mixing Ratio	Component A : Component B = 100:37 (by volume)	
Consumption	Concrete and/or cement screeds and anhydrite screeds, including flowable anhydrite screeds	400–600 g/m <sup>2</sup> , depending on the absorbency of the substrate.
	Broadcast mastic asphalt	250–300 g/m <sup>2</sup>
Ambient Air Temperature	+10 °C min. / +30 °C max., min. 3 °C above dew point temperature	
Relative Air Humidity	< 80 %	
Substrate Temperature	During laying and until Sika® Primer MB has fully cured, the substrate and ambient temperatures shall be between +10 °C and +30 °C without and between +20 °C and +30 °C with underfloor heating.	
Substrate Moisture Content	<b>Permissible substrate moisture content without underfloor heating</b>	
	For cement screeds	<6 % CM
	For anhydrite screeds	<0.5 % CM
	For magnetite flooring	3–12 % CM (depending on the organic content)
	<b>Permissible substrate moisture content for use with underfloor heating</b>	
	For cement screeds	<6 % CM
	For anhydrite screeds	<0.3 %
	For magnetite flooring	3–12 % CM (depending on the organic content)
	To check the moisture content, use the “Rubber Mat Test”, according to ASTM. A polyethylene sheet of > 1x1 m in dimension shall be taped to the concrete surface. Leave the polyethylene sheet in place for > 24 hours prior to testing. This test allows for the detection of any condensed vapour transmissions. Note: CM: carbid method, to determine the moisture content of the substrate. For all moisture contents, the quality of the substrates and surfaces, always follow the guidelines of the wood flooring manufacturer.	
Pot Life	<b>Ambient air temperature</b>	<b>Pot life</b>
	+10 °C	~60 min
	+20 °C	~30 min
	+30 °C	~15 min
	Note: Do not use mixed material after pot life.	
Curing Time	<b>Conditions</b>	<b>Curing time</b>
	+10 °C	~18 h
	+20 °C	~12 h
	+30 °C	~6 h
	Note: Curing speed is dependent on temperature, relative humidity and absorption of substrates. High temperature and low r.h. decrease curing time. Cured material becomes transparent.	

## APPLICATION INSTRUCTIONS

For the application of Sika® Primer MB all generally accepted rules for wood flooring installation apply.

### SUBSTRATE PREPARATION

- The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed.
- At least 50 % of the surface area must be cleared of residual adhesive (i.e. by grinding).
- Preliminary bond strength testing is recommended.
- Compressive strength: > 8 N/mm<sup>2</sup>
- Tensile Bond strength: > 0.8 N/mm<sup>2</sup>
- Concrete and/or cement screeds must be ground and thoroughly cleaned with an industrial vacuum.
- Anhydrite screeds, including flowable anhydrite screeds must be ground and thoroughly cleaned with an industrial vacuum shortly before coating.
- Broadcast mastic asphalt must be broadcasted to excess and thoroughly cleaned with an industrial vacuum.
- On fiber reinforced concrete any exposed fibers must be burnt off the surface.
- The guidelines of the screed floor manufacturer apply.
- For project specific advice, please contact Sika technical service for assistance.

### MIXING

Add component B to component A in the correct ratio using an electric stirrer at a low speed (300–400 rpm). A minimum mixing time of 3 minutes is required; stirring shall continue until the mix becomes homogeneous. 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, ensuring that a continuous coat is achieved over the entire surface (produces a mirror like finish).

Application	Coatings	Results in
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 > 8 hours and < 36 hours must be observed between coats of Sika® Primer MB.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately

after use with water. Once cured, residual material can only be removed mechanically.

## FURTHER INFORMATION

- Safety Data Sheet
- Pre-treatment Chart Sealing and Bonding

## IMPORTANT CONSIDERATIONS

- If Sika® Primer MB is left out for more than 36 hours, the surface must be thoroughly cleaned with a moist cleaning rag and checked for any defects before proceeding with over-coating.
- Do not apply Sika® Primer MB on substrates under significant vapor pressure.
- Freshly applied Sika® Primer MB should be protected from dampness, condensation and water for > 24 hours.
- Avoid puddles on the surface of Sika® Primer MB.
- When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MB must not be broadcast with sand. Sika® Primer MB is recommended for use with all polyurethane and hybrid wood floor SikaBond® adhesives.
- If Sika® Level-200 / -300 / -300 extra / -315F or -340 proceeds the layer of Sika® Primer MB within the system build up, a second layer of Sika® Primer MB must be fully broadcast with quartz sand (15–30 minutes after, at +20 °C). Begin broadcasting lightly and then to excess with quartz sand 0.4–0.7 mm.
- Wood floor installation in areas without a damp proof membrane can only be undertaken with Sika-floor® EpoCem® moisture regulator system and Sika® Primer MB as a vapor barrier. For detailed instructions contact our Technical Service Department.

## BASIS OF PRODUCT DATA

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.

## LOCAL RESTRICTIONS

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 application fields.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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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