

# PRODUCT DATA SHEET

## Sika® Primer MB

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

#### PRODUCT 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 (carbide meter).
- 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>Chemical Base</b>      | 2-Component, epoxy resin compound  |                  |              |
| <b>Packaging</b>          | Component A+B  | 5 kg metal pail  |              |
|                           | Component A+B  | 10 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) |
| Thermal Resistance   | Sika® Primer MB can be permanently exposed to dry heat ≤ +50 °C and temporarily exposed to dry heat ≤ +80 °C.<br>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 (carbide meter)  |
|                            | 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.<br>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 TOOLS

Clean all tools and application equipment immediately

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

## FURTHER DOCUMENTS

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

## LIMITATIONS

- 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.

## VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## LEGAL NOTES

The information, and, in particular, the recommenda-

tions 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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