

PRODUCT DATA SHEET

Sika® Primer MB

PRIMER AND MOISTURE CONTROL FOR CEMENTITIOUS SUBSTRATES PRIOR TO
LEVELLING OR BONDING WITH ELASTIC SIKABOND® ADHESIVES.

PRODUCT DESCRIPTION

Sika® Primer MB is a one coat, 2-part, solvent free, low viscosity, epoxy resin primer for use in conjunction with Sika Schönox® levelling compounds, dispersion primers and SikaBond® Wood Floor adhesives for:

USES

- Moisture control:
- On cementitious substrates with a moisture content up to 6% CM (99%rh)
- Substrate consolidation:
- On concrete, cement and dry anhydrite screeds and refurbished substrates
- Adhesion promotion & isolation:

- Over broadcast mastic asphalt and old adhesive residues (max 50% residue)

CHARACTERISTICS / ADVANTAGES

- One coat application*
- Solvent free
- Applied by roller, brush or squeegee
- Accelerates programme of works
- Good penetration and stabilisation of the substrate
- Reduction of adhesive consumption
- No broadcasting of the primer is necessary (Schönox® SHP)
- Suitable for consolidation of existing weak substrates
- Suitable for use with subfloor heating
- Low viscosity

PRODUCT INFORMATION

Chemical Base	2-part epoxy	
Packaging	Part A:	7.5 kg metal pail
	Part B:	2.5 kg metal pail
	Part A & B:	10 kg metal pail
Appearance / Colour	Blue	
Shelf Life	24 months from date of production if stored properly in original, unopened and undamaged sealed packaging.	
Storage Conditions	In dry conditions at temperatures between +10°C and +25°C	
Density	Part A:	1.1 kg/l approx.
	Part B:	1.02 kg/l approx.
	Mixed Resin:	1.1 kg/l approx.

TECHNICAL INFORMATION

Shore Hardness	Shore D Hardness:	
	83 approx. ¹ (after 7 days@ 23°C, 50% RH)	(DIN 5350)
Compressive Strength	70 N/mm ² approx. ¹ (after 7 days @ 23°C, 50% RH)	EN 196 Part 1)
Curing Speed	Minimum curing time, prior to walking on / wood floor bonding:	
	+10°C	18 hours approx.
	+20°C	12 hours approx.
	+30°C	6 hours approx.
Thermal Resistance	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 may not exceed +27°C	

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 3 : 1 (by weight) Part A : Part B = 100 : 37 (by volume) Add Part B to Part A in the correct ratio using an electric stirrer at a low speed (300 - 400 rpm)
Consumption / Dosage	Concrete / cementitious screed and anhydrite screed / anhydrite flowable screed: 400 - 600 g/m ² dependent on the absorbency of the substrate. Broadcast mastic asphalt: 250 - 350 g/m ²
Relative Air Humidity	< 85%
Ambient Air Temperature	Room temperature must be >+10°C and <+30°C
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 < +20°C. Application temperature of substrate must be > 3°C above the dew point! For substrate temperatures the standard construction rules are relevant.
Substrate Moisture Content	Permissible substrate moisture content: - 6% CM for cementitious screed - 0.5% CM for anhydrite screed - 3-12% CM for magnetite flooring Permissible substrate moisture content when used with under floor heating: - 6% CM for cementitious screed - 0.3% CM for anhydrite screed - 3-12% CM for magnesite flooring No rising moisture content according to ASTM D 4263 (Polyethylene-sheet): For checking the moisture content use the "Rubber Mat Test" according to ASTM D 4263 (at least 1 m x 1 m of polyethylene

sheet, taped to the concrete surface) This should be left in position for at least 72 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%	
Curing Speed	+10°C	60 minutes approx.
	+20°C	30 minutes approx.
	+30°C	15 minutes approx.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate Quality

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/mm² Tensile Bond

strength: > 0.8 N/mm²

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 followed.

Substrate Preparation

Concrete / cementitious screed:

Must be laitance free, sound and thoroughly cleaned by vacuum.

Anhydrite / Calcium Sulphate flowable screed:

Remove surface laitance and thoroughly clean by vacuum shortly before coating. (Note: Use as adhesion promoter only. Do Not Use as Damp Proof Membrane)

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 Service Department for any project specific advice Required.

MIXING

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

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	Min. 1 x	Mirror like finish
Substrate consolidation only	Min. 1 x	Good penetration
Adhesion promotion only	Min. 1 x	Mirror like finish
Moisture barrier + substrate consolidation	Min. 2 x	Mirror like finish
Moisture barrier + adhesion promotion	Min. 2 x	Mirror like finish
*Note: On very absorbent substrates a 2 nd coat may be required to achieve the required gloss finish.		

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

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

LIMITATIONS

- 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 over coating.
- Do not apply Sika® Primer MB on substrates in which significant vapour pressure may occur.
- Freshly applied Sika® Primer MB should be protected from damp, condensation and water for at least 24 hours.
- Avoid puddles on the surface with the primer.
- 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 moisture control. For detailed instructions refer to the
- respective Product Data Sheet or contact our Technical Service Department.
- When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MB must not be broadcast with sand. Sika® Primer MB is recommended with all Polyurethane and Hybrid Wood Floor SikaBond adhesives.
- When over the Sika® Primer MB layer the system build up is proceed with Sika Sika® Level-30 a second layer needs to fully broadcast with quartz sand, after about 15 minutes (at +20°C) but before 30 minutes (at +20°C), at first lightly and then to excess (quartz sand 0.4 - 0.7 mm).

VALUE BASE

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 Material Safety Data Sheet 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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Product Data Sheet

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