

PRODUCT DATA SHEET

Sika® Primer MR Fast

Water-based epoxy primer and moisture control for wood floor bonding

DESCRIPTION

Sika® Primer MR Fast is a 2-component epoxy primer for SikaBond wood flooring adhesives with moisture control and very low emissions.

USES

Sika® Primer MR Fast is designed for use in conjunction with SikaBond wood floor adhesives:

- For moisture control on cement-based substrates with moisture contents of up to 4 % 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
- Water-based epoxy, low odor
- Solvent-free
- Easy to apply, low viscosity
- Allows quick completion
- Suitable for surface hardening
- Suitable for use with underfloor heating
- Very low emissions

ENVIRONMENTAL INFORMATION

- EMICODE EC1^{PLUS} R
- LEED® EQc 4.2
- SCAQMD, Rule 1168
- BAAQMD, Reg. 8, Rule 51
- DER BLAUE ENGEL, RAL UZ 113

PRODUCT INFORMATION

Chemical Base	2-Component, water-based, epoxy resin compound		
Packaging	Component A	2.8 kg plastic can	
	Component B	1.4 kg plastic can	
	Component A+B	4.2 kg cardboard box	
Colour	White, becomes transparent when cured		
Shelf Life	Sika® Primer MR Fast has a shelf life of 9 months from the date of production, if stored properly in undamaged, original, sealed packaging, and if the storage conditions are met.		
Storage Conditions	Sika® Primer MR Fast shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.		
Density	Component A	~1.10 kg/l	(ISO 2811-1)
	Component B	~1.05 kg/l	
	Mixed	~1.10 kg/l	

TECHNICAL INFORMATION

Thermal Resistance Sika® Primer MR Fast can be permanently exposed to dry heat ≤+50 °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 = 2:1 (by weight)

Consumption	Concrete and/or cement screeds and anhydrite screeds, including flowable anhydrite screeds	150–250 g/m ² , depending on the absorbency of the substrate.
	Broadcast mastic asphalt	100–200 g/m ²

Ambient Air Temperature +15 °C min. / +30 °C max., min. 3 °C above dew point temperature

Relative Air Humidity < 75 %

Substrate Temperature During laying and until Sika® Primer MR Fast has fully cured, the substrate and ambient temperatures shall be between +15 °C and +30 °C without underfloor heating and between +20 °C and +30 °C with underfloor heating.

Substrate Moisture Content **Permissible substrate moisture content without underfloor heating**

For cement screeds	<4 % CM
For anhydrite screeds	<0.5 % CM
For magnetite flooring	3–12 % CM (depending on the organic content)

Permissible substrate moisture content for use with underfloor heating

For cement screeds	<4 % 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

Ambient air temperature	Pot life
+15 °C	~3 h
+23 °C	~2 h
+30 °C	~1 h

Note: Mixed Sika® Primer MR Fast stays liquid even when pot life is over. Do not use mixed material after pot life.

Curing Time

Conditions	Curing time
+15 °C / 35 % r.h.	~5 h
+23 °C / 50 % r.h.	~4 h
+30 °C / 75 % r.h.	~3 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.

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.

FURTHER DOCUMENTS

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

LIMITATIONS

- If Sika® Primer MR Fast is left out for more than 24 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 MR Fast on substrates under significant vapor pressure.
- Freshly applied Sika® Primer MR Fast should be protected from dampness, condensation and water for >24 hours.
- Do not dilute Sika® Primer MR Fast.
- Protect Sika® Primer MR Fast from freezing. Do not use Sika® Primer MR Fast if it has been frozen.
- Avoid puddles on the surface of Sika® Primer MR Fast.
- Wood floor installation in areas without a damp proof membrane can only be undertaken with Sika-floor® EpoCem® moisture regulator system and Sika® Primer MR Fast as a vapor barrier. For detailed instructions contact our Technical Service Department.
- When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MR Fast must not be broadcast with sand. Sika® Primer MR Fast 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 MR Fast within the system build up, a second layer of Sika® Primer MR Fast 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.

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.

APPLICATION INSTRUCTIONS

For the application of Sika® Primer MR Fast 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/mm²
- Tensile Bond strength: > 0.8 N/mm²
- Concrete and/or cement screeds must be ground and 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 broadcast to excess and 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 our Technical Service Department.

MIXING

Open the cardboard box and both cans inside of it. Plug the component B bottle upright on the component A can and wait until the component B bottle is empty, then close the cap of the component A can. After combining component A and component B in the correct ratio, shake the can thoroughly. A minimum shaking time of 1 minute is required. Re-shake is required if the mixture appearance is still inhomogeneous.

APPLICATION METHOD / TOOLS

Apply Sika® Primer MR Fast 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 water surface like finish).

Application	Coatings	Results in
Moisture barrier only	Minimum 1 x	Water surface like finish
Substrate consolidation only	Minimum 1 x	Good penetration
Adhesion promotion only	Minimum 1 x	Water surface like finish
Moisture barrier + substrate consolidation	Minimum 2 x	Water surface like finish
Moisture barrier + adhesion promotion	Minimum 2 x	Water surface like finish

A waiting time of > 3 hours and < 24 hours must be observed between coats of Sika® Primer MR Fast.

CLEANING OF TOOLS

Clean all tools and application equipment immediately after use with water. Once cured, residual material can only be removed mechanically.

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.

PRODUCT DATA SHEET

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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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika Pakistan (Pvt.) Limited

141-CCA Phase IV, DHA

Lahore Punjab 54792

Pakistan

phone: +92 42 3569 4266 - 67

fax: +92 42 3569 4268

<http://pak.sika.com/>

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