

Sika® Primer MR Fast

Water-based Primer and moisture control for wood floor bonding with SikaBond® adhesives

Product Description

Sika® Primer MR Fast is a water-based, two part, low viscosity primer.

Uses

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

- Moisture control:
For cementitious substrates with moisture content up to 4% CM (~6% TrameX/Gravimetric weight percent).
- Substrate consolidation:
On concrete, cement and anhydrite screeds and refurbished substrates.
- Adhesion promotion:
For broadcast mastic asphalt and on old adhesive residues.

Characteristics / Advantages

- Water-based primer
- Fast touch dry time
- Easy to apply, low viscous
- Allows faster completion
- Reduction of adhesive consumption
- Suitable for refurbishing existing substrates
- Suitable for use with subfloor heating
- Compatible with SikaBond®-Systems for wood floors.

Environmental Information

Specific Characteristics

- Waterborne primer
- Solvent free
- Odourless
- Recyclable plastic and cardboard packaging

Specific Approvals/Standards

EMICODE EC 1^{PLUS} R, very low emission



Specific Ratings

LEED® EQc 4.2	SCAQMD, Rule 1168	BAAQMD, Reg. 8, Rule 51
passes	passes	passes

Product Data



Form

Colour White, cured transparent

Packaging 4.2 kg cardboard box (2.8 kg & 1.4 kg plastic cans)

Storage

Storage Conditions / Shelf-Life 9 months from date of production if stored properly in undamaged and unopened, original sealed containers, in dry conditions at temperatures between +10°C and +35°C.

Technical Data

Chemical Base 2-part water based epoxy resin compound

Density
A: ~1.10 kg/l
B: ~1.04 kg/l
Mixed: ~ 1.08 kg/l

Drying Speed Minimum drying time, prior to walking on / wood floor bonding:

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

Note: Curing speed depends on temperature, relative humidity and absorption of substrates. Higher temperature and low R. H. increase curing speed. Cured material dries transparent.

When Sika® Primer MR Fast is left for more than 36 hours; the surface must be thoroughly cleaned with a moist cleaning rag and checked for any defects before proceeding with the wood floor installation.

Service Temperature -40°C to +70°C

Mechanical / Physical Properties

Resistance

Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C

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

System Information

Application Details

Consumption / Dosage Concrete / cementitious screed and Anhydrite screed / anhydrite flowable screed: 150 - 250 g/m² dependent on the absorbency of the substrate.

Broadcast mastic asphalt:
100 - 200 g/m²

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 30% of surface remaining adhesives must also have a ground surface

Preliminary bond strength testing is recommended.

The instructions of the screed floor manufacturer must be complied with.

Substrate Preparation 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 Service Department for any project specific advice.

Application Conditions / Limitations

Substrate Temperature During application and until Sika® Primer MR Fast has fully cured the substrate temperature must be > +15°C and when used with under floor heating < +20°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 > +15°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

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 75% max.

Application Instructions

Mixing Mixing ratio:

	Part A	Part B
Parts by weight	2	1

Three actions to mix Sika® Primer MR Fast easily.

1. Open cardboard box and both cans inside the box.
2. Plug the 1.4 kg B-Component bottle vertically on the A-Component can.
3. Wait till B-Component bottle is empty and close cap of A-Component can.

After merging part A and part B in the correct ratio, shake can thoroughly

Mixing Time	A minimum shaking time of 1 minute shall be observed. Reshake is mandatory if mixture appearance is still inhomogeneous.																		
Application Method / Tools	<p>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 (gives a water surface like finish).</p> <table border="1"> <thead> <tr> <th>Application</th> <th>Rec. coatings</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>Moisture barrier only</td> <td>Minimum 1 x</td> <td>water surface like finish</td> </tr> <tr> <td>Substrate consolidation only</td> <td>Minimum 1 x</td> <td>Good penetration</td> </tr> <tr> <td>Adhesion promotion only</td> <td>Minimum 1 x</td> <td>water surface like finish</td> </tr> <tr> <td>Moisture barrier + substrate consolidation</td> <td>Minimum 2 x</td> <td>water surface like finish</td> </tr> <tr> <td>Moisture barrier + adhesion promotion</td> <td>Minimum 2 x</td> <td>water surface like finish</td> </tr> </tbody> </table> <p>A waiting time of minimum 3 hours and maximum 24 hours must be observed between coats of Sika® Primer MR Fast.</p>	Application	Rec. coatings	Remarks	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
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Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.																		
Pot life	<table border="1"> <tbody> <tr> <td>+15°C</td> <td>~ 3 hrs</td> </tr> <tr> <td>+23°C</td> <td>~ 2 hrs</td> </tr> <tr> <td>+30°C</td> <td>~ 1 hrs</td> </tr> </tbody> </table> <p>Please note that mixed Sika® Primer MR Fast stays liquid even after pot life is over. Do not use mixed material after pot life.</p>	+15°C	~ 3 hrs	+23°C	~ 2 hrs	+30°C	~ 1 hrs												
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Notes on Application / Limitations	<p>When Sika® Primer MR Fast is left for more than 36 hours, the surface must be thoroughly cleaned with a moistly cleaning rag and checked for any defects before proceeding with over coating.</p> <p>Do not apply Sika® Primer MR Fast on substrates in which significant vapour pressure may occur.</p> <p>Freshly applied Sika® Primer MR Fast should be protected from damp, condensation and water for at least 24 hours.</p> <p>The Primer is not to be diluted.</p> <p>Protect from freezing. After being frozen the primer can no longer be used.</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 MR Fast as a vapour barrier. For detailed instructions refer to the respective Product Data Sheet or contact our Technical Service Department.</p> <p>When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MR Fast must not be broadcast with sand. Sika® Primer MR Fast is only recommended with SikaBond--T55 (J) / T54 (J) /T53.</p>																		
Notes	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.																		

Health and Safety Information

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 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 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 Product Data Sheet for the product concerned, copies of which will be supplied on request.



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