Construction

Sika® Primer MB

Adhesion Promotor and Damp Proof Membrane for wood floor bonding with elastic SikaBond® adhesives

Product Description

Sika® Primer MB is a two part, solvent free, low viscosity, epoxy resin primer.

Uses

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

- Moisture control:
  For cementitious substrates with a moisture content up to 4% CM (6% Tramex)
- Substrate consolidation:
  On concrete, cement and anhydrite screeds and refurbished substrates
- Isolator:
  For broadcast mastic asphalt and on old adhesive residues

Characteristics / Advantages

- Solvent free
- Easy to apply
- Allows faster completion
- Good penetration and stabilisation of the substrate
- Reduction of adhesive consumption
- No broadcasting of the primer is necessary
- Suitable for refurbishing existing substrates
- Suitable for use with subfloor heating
- Low viscosity
- Compatible with elastic SikaBond®-Systems for wood floors

Product Data

Form

Colour	Blue
Packaging	10 kg and 5 kg metal pails.

Storage

Storage Conditions / Shelf-Life	24 months from date of production if stored properly in undamaged and unopened, original sealed containers, in dry conditions at temperatures between +10 °C and +25 °C.

Technical Data

Chemical Base	2-part epoxy
Density	1.1 kg/l
Curing Speed	Minimum curing time, prior to walking on / wood floor bonding:

+10 °C	18 hours
+20 °C	12 hours
+30 °C	6 hours

Note: When Sika® Primer MB is left for more than 36 hours, the surface must be thoroughly cleaned and checked for any defects etc. before proceeding with the wood flooring.

Service Temperature	-40 °C to +70 °C

Mechanical / Physical Properties

Compressive Strength	~ 70 N/mm^2 (after 7 days, +23 °C / 50% r.h.)	(EN 196 part 1)
Shore D Hardness	~ 83 (after 7 days, +23 °C / 50% r.h.)	(DIN 5350

Resistance

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 should not exceed +26 °C.

System Information

Application Details

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
Substrate Quality	Compressive strength: > 8 N/mm^2 Tensile Bond strength: > 0.8 N/mm^2 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 complied with.
Substrate Preparation	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. Concrete / cementitious screed: Must be laitance free 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 dust free, dry and cleaned by vacuum. On fibre reinforced concrete any exposed fibres must be burnt off the surface. .

Application Conditions / Limitations

Substrate Temperature

During application and until Sika® Primer MB has fully cured the substrate temperature must be > +5°C and when used with under floor heating < +30°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 > +10°C and < +30°C.

Substrate Moisture Content

Maximum 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

Maximum 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
- 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 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% max.

Application Instructions

Mixing

Add part B to part A and mix using an electric stirrer at a low speed (~ 300 - 400 rpm).

Mixing Time

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 roller tray and use without delay.

Application Method / Tools

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 (a mirror like finish should be achieved).

Application	Rec. coatings	Remarks
Moisture barrier only	Minimum 1 x (Minimum 2 x porous substrates)	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 minimum 8 hours and maximum 36 hours must be observed between coats of Sika® Primer MB.

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Cleaning of Tools

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

Potlife

+10 °C	~ 60 minutes
+20 °C	~ 30 minutes
+30 °C	~ 15 minutes

Notes on Application / Limitations

When Sika® Primer MB is left for more then 36 hours, the surface must be thoroughly cleaned and checked for any defects before proceeding with overcoating.

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.

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 consult the Product Data Sheets or contact our Technical Department.

When used in conjunction with SikaBond® Wood Floor Adhesives, Sika® Primer MB must not be broadcast with sand. Sika® Primer MB is only recommended for use with SikaBond adhesives and levelling compounds/screeds.

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.

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

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