BUILDING TRUST

PRODUCT DATA SHEET

Sika® Concrete Primer

Rapid curing primer on cementitious substrates for LAM Roof Waterproofing

DESCRIPTION

Sika® Concrete Primer is a 2-part, polyurea/polyurethane-hybrid primer for cementitious substrates. The rapid curing performance allows overcoating of Sika® Liquid Applied Membrane (LAM) roofing systems after 30 minutes.

USES

Primer on cementitious substrates for use with exterior applications of:
- SikaRoof® MTC
- Sikalastic® roofing systems
- Sikafloor® balcony waterproofing systems

FEATURES

- Very good bond strength to substrate
- Reduces the likelihood of outgassing from susceptible substrates
- Helps to stabilize substrates
- Easy to apply
- Can be filled with quartz sand and used as a scratch coat

PRODUCT INFORMATION

Composition	Solvent-based polyurea	
Packaging	4.5 lt (~4.6 kg) container	Part A (resin): 3.5 lt Part B (hardener): 1.0 lt
	11.5 lt (~11.7 kg) container	Part A (resin): 9.0 lt Part B (hardener): 2.5 lt
Shelf life	12 months from the date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +0 °C and +25 °C. Always refer to packaging.	
Appearance and colour	Liquid / pale yellow	
Density	~1.02 kg/lt (at +23 °C)	

APPLICATION INFORMATION

Mixing ratio	**Primer** Part A : Part B = 3.5 : 1 (by volume)

Consumption	~0.35 kg/m² per coat This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Ambient air temperature		
	Minimum	+5 °C
	Maximum	+30 °C

Dew point	
	Beware of condensation. The substrate and uncured material must be at least 3 °C above dew point to reduce the risk of condensation or blooming of the membrane finish.

Substrate temperature		
	Minimum	+5 °C
	Maximum	+30 °C

Substrate moisture content	
	≤4 % parts by weight The following test methods can be used: ▪ Sika®-Tramex meter ▪ CM-measurement ▪ Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life	
	Sika® Concrete Primer is designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Mixed material in opened containers must be applied immediately. In opened containers, the material will form a film after ~1 hour.

Waiting time to overcoating			
	Temperature	**Minimum**	**Maximum**
	10 °C	60 minutes	24 hours
	20 °C	30 minutes	24 hours

Apply an additional coat if 24 hours is exceeded before coating.
Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

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.

IMPORTANT CONSIDERATIONS

- Do not apply on substrates with rising moisture
- Do not use for indoor applications
- Continuously monitor the pot life of the mixed material, as the end of the pot life is not visibly noticeable
- Avoid puddles of primer
- After application, product must be protected from damp, condensation and direct water contact (rain) for at least 24 hours
- Do not apply close to the air intake vent of a running air conditioning unit
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating, use only electric powered warm air blower systems

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.

REGULATION (EC) NO 1907/2006 - REACH

Regulation (EC) No 1907/2006 (REACH) - Mandatory training
As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. The complete roof system must be designed and secured against wind uplift loadings.
Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm².
The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product system thickness.
High spots can be removed by grinding.
Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.
Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sika® Concrete Primer.
All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Scratch coat

Prior to mixing all parts, mix separately Part A (resin) using an electric single paddle mixer or other similar equipment. Add Part B (hardener) to Part A and mix part A + B continuously for 3 minutes until a uniformly consistent mix has been achieved, using a forced action / rotating pan / electric double paddle mixer / trough type or other similar equipment (free fall mixers must not be used). Gradually add the required granulometry of dried quartz sand and, if required, Extender T. Mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth, consistent mix. Excessive mixing must be avoided to minimize air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for A + B + quartz sand = 5 minutes.

Primer

Prior to mixing all parts, mix separately Part A (resin) thoroughly using an electric single paddle mixer (300–400 rpm) or other similar equipment. Add Part B (hardener) to Part A and mix Part A + B continuously for 3 minutes until a uniformly consistent mix has been achieved. To ensure thorough mixing, pour materials into a clean container and mix again for at least 1 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimize air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = ~4 minutes.

APPLICATION

Strictly follow installation procedures as defined in method of statements, application manuals and working instructions, which must always be adjusted to the actual site conditions.

Scratch coat

Pour the mixed scratch coat material onto the prepared substrate and apply by trowel or squeegee. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two coats. Confirm waiting /overcoating time has been achieved before applying subsequent products.

Primer

Pour mixed primer onto the prepared substrate and apply by brush, roller or squeegee then back roller in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened 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.

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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