

PRODUCT DATA SHEET

Sika® Concrete Primer

Polyurea 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

CHARACTERISTICS / ADVANTAGES

- Very good bond strength to substrate
- Reduces the likelihood of outgassing from susceptible substrates
- Helps to stabilise 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 L container	3,5 L Part A 1,0 L Part B
	11,5 L container	9,0 L Part A 2,5 L Part B
Please contact our customer service, for information of what packaging sizes are sold in Denmark.		
Shelf life	12 months from 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.	
Density	~1,02 kg/l (at +23 °C)	(EN ISO 2811-1)

APPLICATION INFORMATION

Mixing ratio	Primer Part A : Part B = 3,64:1 (by volume)
Ambient air temperature	+5 °C min. / +30 °C max.

Substrate temperature	+5 °C min. / +30 °C max.		
Dew point	Beware of condensation. The substrate and uncured applied material must be at least +3 °C above dew point		
Substrate moisture content	≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or 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.

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.

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 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 CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

APPLICATION INSTRUCTIONS

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 3,0 minutes until a uniformly consistent mix has been achieved. When Parts A and B have been mixed. 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 2,0 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 minimise 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 = 5,0 minutes.

Primer

Prior to mixing all parts, mix separately Part A (resin)

PRODUCT DATA SHEET

Sika® Concrete Primer
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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 3,0 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 1,0 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise 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 = ~4,0 minutes.

APPLICATION

Strictly follow installation procedures as defined in method 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 /over-coating 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

Sika Danmark A/S
Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk



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