

PRODUCT DATA SHEET

Sikafloor®-290 Primer

2-part epoxy resin primer

DESCRIPTION

Solvent-free, two part primer based on epoxy resin.

USES

Sikafloor®-290 Primer is a construction products which only should be applied by trained applicators.

As a primer and adhesion promoter on properly prepared:

- New concrete
- Cementitious screeds
- Hardened concrete

As a primer for:

- Sikafloor®-291

FEATURES

- Easy and fast to apply
- Especially suitable for highly absorbent substrates
- Odourless
- Can be applied in unventilated areas
- Very good bond strength over its whole application temperature range
- Environmentally friendly

PRODUCT INFORMATION

Packaging	Pre-batched 28 kg units. Part A: 8.00 kg container Part B: 20.0 kg container
Appearance and colour	Part A - resin: white liquid Part B - hardener: yellowish liquid Mixed colour: light yellow
Shelf life	Part A, part B: 12 months from date of production Part C: 9 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 +5 °C and +35 °C.
Density	Part A: ~ 1.10 kg/l (at +27°C) Part B: ~ 1.04kg/l (at +27°C) Mixed resin: ~ 1.05 kg/l (at +27°C)
Solid content	~ 28% (by weight)

TECHNICAL INFORMATION

Tensile adhesion strength	> 1.5 N/mm ²	(According to ISO 4624)
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APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 1 : 2.5 (by weight)													
Consumption	0.20 – 0.40 kg/m²/coat. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, etc.													
Ambient air temperature	+10°C min. / +35°C max.													
Relative air humidity	85% r.h. max.													
Dew point	Beware of condensation! The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the surface of the applied product.													
Substrate temperature	+10°C min. / +35°C max.													
Substrate moisture content	≤ 4% moisture content. Test method: Sika® Tramex moisture meter, CM measurement or Oven-dry method. No rising moisture according to ASTM (PE sheet test).													
Pot Life	<table><tr><td>5.6 kg mass</td><td></td></tr><tr><td>Temperature</td><td>Time (at 75% r.h.)</td></tr><tr><td>+30°C</td><td>~ 45 minutes</td></tr></table> Caution: The end of the product's potlife is not noticeable! Keep within the limitations mentioned below. Discard material not used within these times.		5.6 kg mass		Temperature	Time (at 75% r.h.)	+30°C	~ 45 minutes						
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Waiting time to overcoating	Before applying Sikafloor®-291 on Sikafloor®-290 Primer allow: <table><tr><td>Substrate temperature</td><td>Waiting time (Minimum)</td><td>Waiting time (Maximum)</td></tr><tr><td>+10°C</td><td>12 hours</td><td>72 hours</td></tr><tr><td>+20°C</td><td>6 hours</td><td>48 hours</td></tr><tr><td>+30°C</td><td>4 hours</td><td>24 hours</td></tr></table> Times are approximate at 75% r.h. and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.		Substrate temperature	Waiting time (Minimum)	Waiting time (Maximum)	+10°C	12 hours	72 hours	+20°C	6 hours	48 hours	+30°C	4 hours	24 hours
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+30°C	4 hours	24 hours												
Applied product ready for use	<table><tr><td>Substrate temperature</td><td>Foot traffic</td></tr><tr><td>+10°C</td><td>~ 12 hours</td></tr><tr><td>+20°C</td><td>~ 6 hours</td></tr><tr><td>+30°C</td><td>~ 4 hours</td></tr></table> No specific additional curing measures are required. All times are approximate and will be affected by changing ambient and substrate conditions		Substrate temperature	Foot traffic	+10°C	~ 12 hours	+20°C	~ 6 hours	+30°C	~ 4 hours				
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Systems	1 - 2 coats (dependent on substrate porosity).													

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other

safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Low speed electric stirrer (~ 300 – 400 rpm) with helical paddle or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate can be damp but must be free of standing water (no puddles!) and be free of all contaminants such as oils, grease, coatings and surface treatments etc.

Concrete substrates must be prepared mechanically using abrasive blast cleaning, scarifying or grinding equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

High spots can be removed by grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

MIXING

Prior to mixing, shake part A and part B briefly until homogenous, then pour both parts into the mixing container and mix thoroughly for 3 minutes until a uniform mix has been achieved.

Pour the mixed material into another container carefully scraping the sides and mixing paddle with a spatula and then mix again briefly to ensure complete and thorough mixing.

Excessive mixing must also be avoided to minimise air entrainment.

APPLICATION

Apply Sikafloor®-290 Primer by suitable brush, roller or trowel and overwork with a roller.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured 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

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.

Sika Bangladesh Limited

Impetus Center, 242/B, (8th Floor),
Bir Uttam Mir Shawkat Sarak,
(Tejgaon-Gulshan Link Road),
Dhaka -1208, Bangladesh.
Tel +880 1313095060, +880 1313095061
<https://bgd.sika.com/>

Product Data Sheet

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