

Product Data Sheet
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Identification no:
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Sikafloor®-290 Primer

Sikafloor®-290 Primer

2-part epoxy resin primer

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

Uses As a primer and adhesion promoter on properly prepared:

- New concrete
- Cementitious screeds
- Hardened concrete

As a primer for:

- Sikafloor®-291

Characteristics / Advantages

- 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 Data

Form

Appearance / Colours

Part A - resin:	white liquid
Part B - hardener:	yellowish liquid
Mixed colour:	light yellow

Packaging Pre-batched 28 kg units.

Part A:	8.00 kg container
Part B:	20.0 kg container

Storage

Storage Conditions/ Shelf-Life 6 months from date of production if stored properly in original, unopened and undamaged, sealed containers, in dry conditions, at temperatures between +5°C and +35°C. Protect from frost.

Construction



Technical Data

Chemical Base	Epoxy.
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)

Mechanical / Physical Properties

Bond Strength	> 1.5 N/mm ²	(According to ISO 4624)
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System Information

System Structure	1 - 2 coats (dependent on substrate porosity).
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Application Details

Consumption / Dosage	0.20 – 0.40 kg/m ² /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.
Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . 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.
Substrate Preparation	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.

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +35°C max.
Ambient 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).
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.

Application Instructions

Mixing	Part A : Part B = 1 : 2.5 (by weight)														
Mixing Time	<p>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.</p> <p>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.</p> <p>Excessive mixing must also be avoided to minimise air entrainment.</p>														
Mixing Tools	Low speed electric stirrer (~ 300 – 400 rpm) with helical paddle or other suitable equipment.														
Application Method / Tools	Apply Sikafloor®-290 Primer by suitable brush, roller or trowel and overwork with a roller.														
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.														
Potlife	<p>5.6 kg mass</p> <table border="1"><thead><tr><th>Temperature</th><th>Time (at 75% r.h.)</th></tr></thead><tbody><tr><td>+30°C</td><td>~ 45 minutes</td></tr></tbody></table> <p><i>Caution:</i> The end of the product's potlife is not noticeable! Keep within the limitations mentioned below. Discard material not used within these times.</p>	Temperature	Time (at 75% r.h.)	+30°C	~ 45 minutes										
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Waiting Time / Overcoating	<p>Before applying Sikafloor®-291 on Sikafloor®-290 Primer allow:</p> <table border="1"><thead><tr><th rowspan="2">Substrate temperature</th><th colspan="2">Waiting time</th></tr><tr><th>Minimum</th><th>Maximum</th></tr></thead><tbody><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></tbody></table> <p>Times are approximate at 75% r.h. and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.</p>	Substrate temperature	Waiting time		Minimum	Maximum	+10°C	12 hours	72 hours	+20°C	6 hours	48 hours	+30°C	4 hours	24 hours
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Notes on Application / Limitations	<p>At low temperatures and/or high humidity, the curing time will increase.</p> <p>Protect application from rain / water while reaction and curing takes place.</p> <p>Make sure to monitor and control the pot life of the mix as the end of pot life is not visibly noticeable. Discard any material at the pot life limits indicated for the existing application conditions!</p>														
Curing Details															
Applied Product ready for use	<p>See the Overcoating table above.</p> <table border="1"><thead><tr><th>Substrate temperature</th><th>Foot traffic</th></tr></thead><tbody><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></tbody></table> <p>No specific additional curing measures are required.</p> <p>All times are approximate and will be affected by changing ambient and substrate conditions</p>	Substrate temperature	Foot traffic	+10°C	~ 12 hours	+20°C	~ 6 hours	+30°C	~ 4 hours						
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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

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 products must test the product/s suitably 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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