

**Product Data Sheet**  
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Sikafloor®-80 Primer

# Sikafloor®-80 Primer

## 2-part water dispersed epoxy resin primer

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<b>Product Description</b>	Solvent-free, water dispersed two part primer based on epoxy resin.
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<b>Uses</b>	As a primer and adhesion promoter on properly prepared: <ul style="list-style-type: none"><li>■ New concrete</li><li>■ Cementitious screeds</li><li>■ Hardened concrete</li><li>■ EpoCem levelling layers</li></ul> As a primer for: <ul style="list-style-type: none"><li>■ Sikafloor®-81 EpoCem® and Sikafloor®-82 EpoCem®</li></ul>
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<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Easy and fast to apply</li><li>■ Especially suitable for highly absorbent substrates</li><li>■ Water dispersed and odourless</li><li>■ Can be applied in unventilated areas</li><li>■ Very good bond strength over its whole application temperature range</li><li>■ Environmentally friendly</li></ul>
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### Product Data

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#### Form

<b>Appearance / Colours</b>	Part A: white liquid Part B: translucent yellowish liquid Mixed colour : yellowish
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<b>Packaging</b>	Part A: 0.4 kg x 4 container Part B: 1.0 kg x 4 container Part A+B : 5.6 kg ready to mix units
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#### Storage

<b>Storage Conditions/ Shelf-Life</b>	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.
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#### Technical Data

<b>Chemical Base</b>	Water dispersed epoxy
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Construction



<b>Density</b>	Part A: ~ 1.1 kg/l (at +27°C) Part B: ~ 1.04kg/l (at +27°C) Mixed resin: ~ 1.05 kg/l (at +27°C)
<b>Solid Content</b>	~ 28% (by weight)
<b>Layer Thickness</b>	D.F.T.: ~ 25 µm per coat
<b>Mechanical / Physical Properties</b>	
<b>Bond Strength</b>	> 1.5 N/mm <sup>2</sup> (According to ISO 4624)
<b>System Information</b>	
<b>System Structure</b>	1 - 2 coats (dependent on substrate porosity).
<b>Application Details</b>	
<b>Consumption / Dosage</b>	0.25 - 0.4 kg/m <sup>2</sup> /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.
<b>Substrate Quality</b>	The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm <sup>2</sup> ) with a minimum pull off strength of 1.5 N/mm <sup>2</sup> . 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.
<b>Substrate Preparation</b>	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 <sup>®</sup> , Sikadur <sup>®</sup> and Sikagard <sup>®</sup> 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.
<b>Application Conditions / Limitations</b>	
<b>Substrate Temperature</b>	+10°C min. / +35°C max.
<b>Ambient Temperature</b>	+10°C min. / +35°C max.
<b>Substrate Moisture Content</b>	Can be applied on matt, damp concrete when overcoating with the Sikafloor <sup>®</sup> EpoCem <sup>®</sup> range.
<b>Relative Air Humidity</b>	85% r.h. max.
<b>Dew Point</b>	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.
<b>Application Instructions</b>	
<b>Mixing</b>	Part A : Part B = 1 : 2.5 (by weight)

<b>Mixing Time</b>	<p>Prior to mixing, thoroughly stir part A (resin) well, then add all of part B (hardener) and mix both liquid parts thoroughly for three minutes until a uniform mix has been achieved.</p> <p>To ensure thorough mixing, after the minimum 3 minutes mixing, 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>														
<b>Mixing Tools</b>	Low speed electric stirrer (~ 300 - 400 rpm)														
<b>Application Method / Tools</b>	<p>Apply Sikafloor®-80 Primer by suitable brush, roller or trowel and overwork with a roller.</p> <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>														
<b>Cleaning of Tools</b>	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.														
<b>Potlife</b>	<p>5.6 kg mass</p> <table border="1"> <thead> <tr> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>+30°C</td> <td>~ 45 minutes</td> </tr> </tbody> </table> <p>Caution: expiry of potlife is not visible if the mix is more than 45 minutes at above temperature. (Above values at 75% r.h.)</p>	Temperature	Time	+30°C	~ 45 minutes										
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<b>Waiting Time / Overcoating</b>	<p>Before applying Sikafloor®-81 / -82 EpoCem® onto Sikafloor®-80 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>24 hours</td> </tr> <tr> <td>+20°C</td> <td>6 hours</td> <td>12 hours</td> </tr> <tr> <td>+30°C</td> <td>4 hours</td> <td>6 hours</td> </tr> </tbody> </table>	Substrate temperature	Waiting time		Minimum	Maximum	+10°C	12 hours	24 hours	+20°C	6 hours	12 hours	+30°C	4 hours	6 hours
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<b>Notes on Application / Limitations</b>	<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>														
<b>Curing Details</b>															
<b>Applied Product ready for use</b>	<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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<b>Value Base</b>	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.														
<b>Health and Safety Information</b>	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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Sika India Pvt. Ltd.  
Commercial Complex II  
620, Diamond Harbour Road  
Kolkata, 700 034, India

Phone +91 33 2447 2448/2449  
Telefax +91 33 2468 8688/2665  
[www.sika.in](http://www.sika.in)  
[info@in.sika.com](mailto:info@in.sika.com)