

## PRODUCT DATA SHEET

# Sika® Bonding Primer

Two-component, waterbased epoxy primer

### DESCRIPTION

Sika® Bonding Primer is a two-component, water-based epoxy primer to consolidate substrates and enhance the adhesion of SikaRoof MTC®, Sikalastic®, Sikafloor® and Sikagard® products.

### USES

Versatile primer for use with:

- SikaRoof® MTC
- Sikalastic® roofing systems
- Sikafloor® balcony waterproofing systems
- Sikagard® hygiene coatings
- Suitable for use on concrete, masonry, tiles, insulation foams, bituminous surfaces, plaster, cementitious renders, screeds and mortars

### FEATURES

- Fast curing - overcoat possible after 1 – 2 hours
- Long pot life - up to 12 hours
- Low odour - water-based product
- Consolidates dusty or friable surfaces
- Uniforms the absorbency of the substrate
- Enhances adhesion to a broad range of substrates
- Easy application by brush, roller or airless spray

### PRODUCT INFORMATION

<b>Composition</b>	Epoxy, waterborne and polyamine curative	
<b>Packaging</b>	1.0 lt (~1.03 kg) unit	0.8 lt component A 0.2 lt component B
	5.0 lt (~5.16 kg) unit	4 lt component A 1 lt component B
	15.0 lt (~15.546 kg) unit	12 lt component A 3 lt component B
<b>Appearance and colour</b>	Liquid / clear	
<b>Shelf life</b>	24 months from date of production	
<b>Storage conditions</b>	<p>The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C.</p> <p>Higher storage temperatures may reduce shelf life of product.</p> <p>Reference shall also be made to the storage recommendations within the safety data sheet.</p>	
<b>Density</b>	~1.03 kg/lt (23 °C)	(EN ISO 2811-1)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Component A : Component B = 4:1 (by volume)																									
<b>Consumption</b>	Apply in one to two coats, with a consumption of 0.15 kg/m <sup>2</sup> approx. per coat, depending upon surface roughness and absorption. Note: For metal substrates, apply 1x Sikalastic® Metal Primer (0.20 kg/m <sup>2</sup> approx.) instead of Sika® Bonding Primer (please refer to Sikalastic® Metal Primer Product Data Sheet for further information). These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage.																									
<b>Ambient air temperature</b>	Min.	+5 °C																								
	Max.	+40 °C																								
<b>Relative air humidity</b>	80 % r.h. max.																									
<b>Dew point</b>	Beware of condensation. The substrate and uncured coating must be ≥3 °C above dew point.																									
<b>Substrate temperature</b>	Min.	+5 °C																								
	Max.	+40 °C																								
<b>Substrate moisture content</b>	Visible damp free (maximum 18 % wood moisture equivalent). ≤6 % pbw moisture content Test method: Sika®-Tramex meter ≤4 % CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).																									
<b>Waiting time to overcoating</b>	Before applying any recommended SikaRoof® MTC, Sikalastic® and Sika-floor® products on Sika® Bonding Primer, allow: <table border="1"> <thead> <tr> <th><u>Substrate temperature</u></th> <th><u>Minimum waiting time</u></th> <th><u>Maximum waiting time</u></th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>4 hours approx.</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>2.5 – 3.5 hours approx.</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>1 hour approx.</td> <td>7 days</td> </tr> </tbody> </table> Before applying Sikagard® products on Sika® Bonding Primer allow: <table border="1"> <thead> <tr> <th><u>Substrate temperature</u></th> <th><u>Minimum waiting time</u></th> <th><u>Maximum waiting time</u></th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>24 hours approx.</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>8 hours approx.</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>6 hours approx.</td> <td>7 days</td> </tr> </tbody> </table> Note: Apply an additional coat if more than 24 hours pass before coating. Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.		<u>Substrate temperature</u>	<u>Minimum waiting time</u>	<u>Maximum waiting time</u>	+10 °C	4 hours approx.	7 days	+20 °C	2.5 – 3.5 hours approx.	7 days	+30 °C	1 hour approx.	7 days	<u>Substrate temperature</u>	<u>Minimum waiting time</u>	<u>Maximum waiting time</u>	+10 °C	24 hours approx.	7 days	+20 °C	8 hours approx.	7 days	+30 °C	6 hours approx.	7 days
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## 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 Sika® Bonding Primer on substrates with rising moisture
- Sika® Bonding Primer is not recommended for use as a direct primer for Sikagard® 307, Sikagard® 317 and Sikalastic®-641
- Always ensure good ventilation when using Sika® Bonding Primer in a confined space, to ensure drying and full curing
- If the primer is damaged by rain, a chalky surface will result and the surface must be re-primed

- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking (for further information, please contact Sika technical service)
- If heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating, use only electric powered warm air blower systems
- New concrete should be allowed to cure/hydrate for a minimum of 10 days, preferably 28 days

## 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.

## DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type wb) is 140 / 140 g/lit (Limits 2007 / 2010) for the ready to use product.

The maximum content of Sika® Bonding Primer is <140 g/lit VOC for the ready to use product.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The surface must be sound, of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination. The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

### SUBSTRATE PREPARATION

All surfaces to be coated should be thoroughly cleaned by conventional means. Inspect the substrate. Spalling, flaking or damaged areas should be repaired using compatible materials to match surroundings or replaced as necessary. If in doubt, apply a test area first. Tiles have to be prepared mechanically, glazing has to be removed. Grinding may be necessary to level the surface.

For detailed information regarding substrate quality / preparation and primer chart, please refer to Method Statement.

### MIXING

#### Mechanical mixing

Add Part B to Part A and mix Part A+B continuously for a minimum 3 minutes. Over mixing must be avoided to minimise air entrainment. Use an electric single or double paddle mixer (300 – 400 rpm) with a spiral paddle for mixing.

Note: Mix full units only.

## APPLICATION

Prepare Sika® Bonding Primer by adding component B into component A container, mix with an electric drill until a homogeneous product is achieved and the product is free of streaks. The 1 lit packaging can be mixed by spatula or flat stick.

Sika® Bonding Primer can be applied by short-piled roller, brush or airless spray.

Allow primer to dry sufficiently (see table waiting time / overcoating) before overcoating.

### Fleeced roller / brush application

1. Confirm product application conditions: substrate moisture content, substrate, air and product temperatures, relative humidity and dew point (Refer to Application Information).
2. Apply the Product evenly over the surface with a short-piled roller or brush. The consumption is specified in the Application Information.
3. Back roll the surface in two directions at right angles with a short-piled roller.
4. The primer must be continuous and pore free.

### Airless spray application

1. Confirm product application conditions: substrate moisture content, substrate, air and product temperatures, relative humidity and dew point (Refer to Application information).
2. Spray apply the product in a continuous cross-spray operation and at a speed to achieve a consistent thickness and the required surface finish. The consumption is specified in the Application Information.
3. The primer must be continuous and pore free.

## CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened and/or cured 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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