

PRODUCT DATA SHEET

Sika® Bonding Primer

Water-based epoxy resin primer

DESCRIPTION

Sika® Bonding Primer is a 2-part, water-based multipurpose epoxy resin primer. It consolidates substrates and improves the adhesion of SikaRoof MTC®, Sikalastic®, Sikafloor® and Sikagard® products.

USES

Multipurpose primer for:

- SikaRoof® MTC
- Sikalastic® roofing systems
- Sikafloor® balcony waterproofing systems
- Sikagard® hygiene coatings

The product can be used on the following substrates:

- Sika Carrier Membrane
- Bitumen sheet membranes
- Modified bituminous membranes
- Concrete and other cementitious substrates
- Glazed and unglazed ceramic tiles

Please note: The Product may be used for interior and exterior applications. For any different substrates than listed above, consult your Sika technical service.

CHARACTERISTICS / ADVANTAGES

- Fast curing increases productivity and saves time
- Consolidates dusty or friable substrates providing enhanced adhesion
- Reduces the risk of outgassing from susceptible substrates
- Overcoating possible after 1–2 hours
- Water-based
- Good penetrating ability into porous substrates
- Reduces the absorbency of the substrate
- Easy application
- Applied by brush, roller or airless spray

PRODUCT INFORMATION

Chemical Base	Water-based epoxy with a polyamine curing mechanism	
Packaging	Parts A+B	1.0 L ready to mix unit
	Parts A+B	5.0 L ready to mix unit
	Parts A+B	15.0 L ready to mix unit
	Refer to current price list for packaging variations	
Colour	Liquid / clear	
Shelf Life	24 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~1.03 kg/l (+23 °C)	

APPLICATION INFORMATION

Mixing Ratio	Part A:Part B = 4:1 (by volume)																								
Consumption	~0.15 kg/m ² /coat. Apply in 1 or 2 coats. This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.																								
Ambient Air Temperature	+5 °C min. / +40 °C max.																								
Relative Air Humidity	80 % max.																								
Dew Point	Beware of condensation. The substrate and uncured applied coating must be ≥ +3 °C above dew point.																								
Substrate Temperature	+5 °C min. / +40 °C max.																								
Substrate Moisture Content	The Product can be applied on substrates with a moisture content of ≤ 6 %. The substrate must be visibly dry with no standing water. The following test methods can be used to determine the substrate moisture content: <ul style="list-style-type: none"> ▪ Sika®-Tramex meter ▪ CM-measurement ▪ Oven-dry-method 																								
Waiting Time / Overcoating	<p>Before applying SikaRoof® MTC, Sikalastic® or Sikafloor® products on Sika® Bonding Primer, allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>4 hours</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>2.5–3.5 hours</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>1 hour</td> <td>7 days</td> </tr> </tbody> </table> <p>Before applying Sikagard® products on Sika® Bonding Primer allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>24 hours</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>8 hours</td> <td>7 days</td> </tr> <tr> <td>+30 °C</td> <td>6 hours</td> <td>7 days</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by film thickness and changing ambient conditions particularly temperature and relative humidity.</p>	Substrate temperature	Minimum	Maximum	+10 °C	4 hours	7 days	+20 °C	2.5–3.5 hours	7 days	+30 °C	1 hour	7 days	Substrate temperature	Minimum	Maximum	+10 °C	24 hours	7 days	+20 °C	8 hours	7 days	+30 °C	6 hours	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.

FURTHER DOCUMENTS

- Sika Method Statement: Sika® Bonding Primer

LIMITATIONS

- Do not apply on substrates with rising moisture.
- Do not apply on substrates that are unstable.
- Do not use as a primer for Sikagard® 307, Sikagard® 317 or Sikalastic®-641.
- Always ensure good ventilation when applying the Product in a confined space.
- Protect the freshly applied Product from damp, condensation and water for at least 24 hours.

- If the applied uncured Product is exposed to high humidity, rain, condensation or water, a white 'chalky' residue will appear on the surface. The Product must be reapplied over the affected areas.
- The incorrect assessment and treatment of cracks in the substrate may lead to a reduced service life and reflective surface cracking.
- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish. For heating, use only electric powered warm air blower systems.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

VOC DATA

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

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

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

IMPORTANT

Reference must be made to the Sika Method Statement: Sika® Bonding Primer

General

- Substrates must be free of standing water (no puddles) clean and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- New concrete must be cured for at least 10 days.
- Prepare substrates using grinding equipment, high pressure power washer, manual or mechanical wire brushes.
- Damaged, weak or loose substrates must be removed and repaired with compatible materials.
- To confirm adequate surface preparation and Product adhesion, carry out a small trial before full application together with adhesion tests as required.

MIXING

IMPORTANT

Over mixing must be avoided to minimise air entrainment.

Note: Use an electric single or double paddle mixer (300–400 rpm) with a spiral paddle for mixing.

Note: Mix full units only.

Mechanical mixing

Add Part B to Part A and mix Part A+B continuously for a minimum 3.0 minutes

Manual mixing

Note: The 1 l unit can be mixed manually.

Add Part B to Part A and mix Part A+B continuously for a minimum 3.0 minutes using a spatula or flat mixing stick.

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.

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. Pour the mixed Product onto the surface.
3. Apply the Product evenly over the surface with a short-piled roller or brush. The consumption is specified in the Application Information.
4. Back roll the surface in two directions at right angles with a short-piled roller.
5. 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 TOOLS

Clean all tools and application equipment with water immediately after use. Hardened 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,
6 On Ping Street, Shatin, N.T., H.K.
Phone: +852 26868108
Fax: +852 26453671
Mail: marketing@hk.sika.com
Website: www.sika.com.hk



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