

## 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:

- Bitumen sheet membranes
- Bituminous coatings
- Brick masonry
- Cementitious renders
- Concrete
- Cementitious screeds

- Glazed ceramic tiles
- Insulation foams
- Plaster
- Unglazed ceramic tiles

Please note:

- The Product may be used for interior and exterior applications.

### 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

|                           |   |                          |
|---------------------------|---|--------------------------|
| <b>Composition</b>        | Water-based epoxy with a polyamine curing mechanism   |                          |
| <b>Packaging</b>          | 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 |
|                           | Please contact our customer service, for information of what packaging sizes are sold in Denmark.   |                          |
| <b>Colour</b>             | Liquid / light green  |                          |
| <b>Shelf life</b>         | 24 months from date of production   |                          |
| <b>Storage conditions</b> | 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. |                          |
| <b>Density</b>            | ~1,03 kg/l (+23 °C)   | (EN ISO 2811-1)          |

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## APPLICATION INFORMATION

| <b>Mixing ratio</b>                | Part A:Part B = 4:1 (by volume)  |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
|------------------------------------|--|------------------------------|----------------|----------------|--------|---------|--------|--------|---------------|--------|--------|--------|--------|------------------------------|----------------|----------------|--------|----------|--------|--------|---------|--------|--------|---------|--------|
| <b>Consumption</b>                 | ~0,15 kg/m <sup>2</sup> /coat. Apply in 1 or 2 coats.<br>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.   |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Ambient air temperature</b>     | +5 °C min. / +40 °C max.   |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Relative air humidity</b>       | 80 % max.  |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Substrate temperature</b>       | +5 °C min. / +40 °C max.   |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Dew point</b>                   | Beware of condensation.<br>The substrate and uncured applied coating must be ≥ +3 °C above dew point.  |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Substrate moisture content</b>  | The Product can be applied on substrates with a moisture content of ≤ 6 %. The substrate must be visibly dry with no standing water.<br>The following test methods can be used to determine the substrate moisture content: <ul style="list-style-type: none"><li>▪ Sika®-Tramex meter</li><li>▪ CM-measurement</li><li>▪ Oven-dry-method</li></ul>  |                              |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Waiting time to overcoating</b> | Before applying SikaRoof® MTC, Sikalastic® or Sikafloor® products on Sika® Bonding Primer, allow: <table border="1"><thead><tr><th><b>Substrate temperature</b></th><th><b>Minimum</b></th><th><b>Maximum</b></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><br>Before applying Sikagard® products on Sika® Bonding Primer allow: <table border="1"><thead><tr><th><b>Substrate temperature</b></th><th><b>Minimum</b></th><th><b>Maximum</b></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><br>Times are approximate and will be affected by film thickness and changing ambient conditions particularly temperature and relative humidity. | <b>Substrate temperature</b> | <b>Minimum</b> | <b>Maximum</b> | +10 °C | 4 hours | 7 days | +20 °C | 2,5–3,5 hours | 7 days | +30 °C | 1 hour | 7 days | <b>Substrate temperature</b> | <b>Minimum</b> | <b>Maximum</b> | +10 °C | 24 hours | 7 days | +20 °C | 8 hours | 7 days | +30 °C | 6 hours | 7 days |
| <b>Substrate temperature</b>       | <b>Minimum</b>   | <b>Maximum</b>               |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| +10 °C                             | 4 hours  | 7 days                       |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| +20 °C                             | 2,5–3,5 hours  | 7 days                       |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| +30 °C                             | 1 hour   | 7 days                       |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| <b>Substrate temperature</b>       | <b>Minimum</b>   | <b>Maximum</b>               |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| +10 °C                             | 24 hours   | 7 days                       |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| +20 °C                             | 8 hours  | 7 days                       |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |
| +30 °C                             | 6 hours  | 7 days                       |                |                |        |         |        |        |               |        |        |        |        |                              |                |                |        |          |        |        |         |        |        |         |        |

## 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 INFORMATION

- Sika Method Statement: Sika® Bonding Primer

## IMPORTANT CONSIDERATIONS

- 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 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/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.

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### 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 EQUIPMENT

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 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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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