

Product Data Sheet
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Sika® Bonding Primer

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(Liquid Plastics Bonding Primer)

Two-component primer to consolidate substrates and enhance the adhesion of SikaRoof MTC®, Sikalastic®, Sikafloor® and Sikagard® products

Product Description

Sika® Bonding Primer is a two component, water based primer for Sikalastic®, Sikafloor® and Sikagard® systems.

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

Characteristics / Advantages

- Rapid curing, overcoat possible after 1 hour
- 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

Product Data

Form

Appearance / Colour Resin: Milky green liquid

Packaging Sika® Bonding Primer: 1.0 litre (~ 1.03kg) containers; 0.8l part A + 0.2l part B
5.0 litres (~ 5.16kg) containers; 4l part A + 1l part B
15.0 litres (~ 15.546kg) containers; 12l part A + 3l part B

Storage

Storage Conditions / Shelf Life 24 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +25°C. Protect from frost.



Technical Data

Chemical Base	Epoxy, waterborne and polyamine curative
Density	Sika® Bonding Primer: ~ 1.03 kg/l (DIN EN ISO 2811-1)

Mechanical / Physical Properties

Bond Strength	> 1.5 N/mm ² (failure in concrete) (ISO 4624)
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System Information

Application Details

Consumption / Dosage

Coating System	Product	Consumption
System		
Primer	Sika® Bonding Primer	Approx. 0.10 kg/m ²
Possible following coats	Various products of the SikaRoof® MTC Sikalastic®, Sikafloor® or Sikagard® product range	Refer to the individual Product Data Sheet

Note:

For metal substrates apply 1 x Sikalastic® Metal Primer (Approx. 0.20 kg/m²) instead of Sika® Bonding Primer (please refer to Sikalastic® Metal Primer product datasheet for further information).

These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.

Substrate Quality

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance, mould, grease, coatings and surface treatments, etc.

Brick work, block work, stone work:

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.

Substrate Preparation

All surfaces to be coated should be thoroughly cleaned by conventional means.

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

Tiles have to be prepared mechanically, glazing has to be removed.

Ensure that surfaces are free from visible dampness and that all dust, loose and friable material is completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Application Conditions / Limitations

Substrate Temperature	+5°C min. / +40°C max.
Ambient Temperature	+5°C min. / +40°C max.
Substrate Moisture Content	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).
Relative Air Humidity	80% r.h. max.
Dew Point	Beware of condensation! The substrate and uncured coating must be at least 3°C above dew point to reduce the risk of condensation or blooming on the wall finish.

Application Instructions

Mixing

Part A : Part B = 80 : 20 (by volume)

Part A : Part B = 80 : 20 (by weight)

Application Method / Tools

Prior to application, confirm substrate moisture content, relative humidity and dew point.

Primer:

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

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

Application by brush or roller may require additional coats.

Brush application is recommended only for small areas.

Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically or with proprietary paint stripper).

Waiting Time / Over coating

Before applying any recommended SikaRoof® MTC, Sikalastic® and Sikafloor® products - on Sika® Bonding Primer - allow:

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

Before applying Sikagard® products - on Sika® Bonding Primer - allow:

Substrate temperature	Minimum	Maximum
+10°C	~24 hours	7 days
+20°C	~8 hours	7 days
+30°C	~6 hours	7 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Notes on Application / Limitations

- The higher the relative air humidity, the more the waiting time / overcoat will increase. Applications onto non-absorbent substrates in conditions of low temperature and high humidity may require up to 24 hours curing.
- Sika® Bonding Primer is not recommended for use as a direct primer for Sikagard® 307 and Sikagard® 317.
- Always ensure good ventilation when using Sika® Bonding Primer in a confined space, to ensure drying and full curing.
- If the primer is rain damaged, 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 Technical Customer Services).
- For spray application the use of protective health & safety equipment is mandatory!
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O 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 and preferably 28 days.

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.

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.

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 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.

EU Regulation 2004/42 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.

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



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