Product Data Sheet
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Construction

Sika Bonding Primer

Two-component primer to consolidate substrates and enhance the adhesion of Sika Liquid Plastics Roofing and Balcony systems and Sika Hygiene products

Product Description

Sika Bonding Primer is a rapid curing, water based primer consisting of two components; a pre-reacted epoxy resin dispersed in water (Part A), and a waterborne modified polyamine solution (Part B).

Uses

Versatile primer for use with:
- Sika Liquid Plastics' roofing systems
- Sika Liquid Plastics' balcony waterproofing systems
- Sika hygiene coatings
- Sika Liquid Plastics' external wall 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
- Seals the surface of the substrate to give uniforms absorbency of subsequent coatings
- Enhances adhesion to a broad range of substrates

Product Data

Form

Appearance	Milky green liquid in wet, mixed state
Packaging	1.0L container; 0.8L Part A + 0.2L Part B 5.0L container; 4L Part A + 1L Part B 15.0L container; 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 polyamide curative	
Density	~ 1.03 kg/l	(DIN EN ISO 2811-1)

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Mechanical/Physical Properties

Bond Strength	Epoxy, waterborne and polyamide curative	(ISO 4624)

System Information

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.

Brickwork, blockwork, stonework:

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.

Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm^2) with a minimum pull off strength of 1.5 N/mm^2.

Tiles are to be mechanically prepared, glazed tiles must be abraded.

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 and Limitations

Substrate and Ambient Temperature

+5 °C min. / +40 °C max.

Substrate Moisture Content

Visible damp free (maximum 18% wood moisture equivalent).

No rising moisture according to ASTM (Polyethylene sheet).

Relative Air Humidity

80% r.h. max.

Dew Point

Beware of condensation. Surface temperature during application must be at least +5°C above dew point.

Coverage Rates

0.08 L/m^2 (12 m^2/L) on non-absorbent substrates

0.125 L/m^2 (8 m^2/L) on absorbent substrates (i.e. prepared, dry concrete)

0.17 L/m^2 (6 m^2/L) or 2 coats, each at 0.08 m^2/L on green, uncured, damp cementitious surfaces.

Note:

Do not use on metal substrates. For metal substrates apply 1 x Sika Liquid Plastics' Metal Primer (approx. 0.20 kg/m^2) instead of Sika Bonding Primer (please refer to the 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.

Rough, porous, absorbent or undulating surfaces will inevitably increase the quantity of primer required.

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Application Instructions

Mixing

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

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 the 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 / Overcoating

Before applying any recommended Sika Liquid Plastics roofing or balcony systems 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 any recommended Sika Hygienic or External Walls Coatings 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 time 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 W (Sterisept) and Sikagard-317 W (Sterisept SI).
- 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.

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- 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 CO_2 and H_2O 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.

General Information

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.

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.

Disclaimer

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.

Specification Assistance

NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.

Contact Details

For further information please contact:

Sika Liquid Plastics
Sika House
Miller Street
Preston
PR1 1EA

Enquiry Line: 01772 259781

Fax: +44 (0)1772 255670

e-mail: liquidplastics@uk.sika.com

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