

PRODUCT DATA SHEET

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Sika® Concrete Primer

Rapid curing, high solids, solvent based primer

Description	Sika® Concrete Primer is a two-component, rapid curing, high solids, solvent-based primer, consisting of: a solvent-based polyurethane resin (Part A), and a hardener (Part B). It is designed for sealing cementitious substrates to reduce the incidence of outgassing. In its wet mixed state, Sika® Concrete Primer is amber in colour.
Where to Use	Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required.
Advantages	<ul style="list-style-type: none"> ▪ Significantly reduces the likelihood of blistering and pinholing. ▪ Very fast curing formulation. ▪ Combines rapid cure time with a long pot life. ▪ Compatible with most concrete, masonry, and stone substrate materials.
Technical Data	
Packaging	4.5 L. kit (3.5 L Part A, 1.0 L Part B); 23 L (2 x 11.5 L) kit (2 x 9.0 L Part A, 2 x 2.5 L Part B)
Colour	White (RAL 9016), Pearl Gray, Steel Gray, Mushroom, Copper Green; custom colours available with minimum order
Coverage	20.90 to 34.83 m ² /L (225 to 375 ft ² /US gal.), depending on substrate profile and porosity 20.90 m ² /L (225 ft ² /US gal.) on prepared, dry concrete and masonry (CSP3 surface preparation) Note: On porous/open substrates, apply as two (2) coats, each at a maximum spread rate of 25.08 m ² /L (270 ft ² /US gal.).
Shelf Life	12 months in original, unopened and undamaged sealed containers. Store dry at 5 - 25 °C (41 - 77 °F). Condition material to 10 - 25 °C (50 - 77 °F) before using.
Service Temperature	-30 to 80 °C (-22 to 176 °F)
Properties at 23 °C (73 °F) and 50 % R.H.	
Cure Mechanism	Chemical cure
Pot Life	45 minutes
Total Volume Solids ASTM D2697	72 %
Density	1.02 kg/L
Flash Point	Part A: 40 °C (104 °F) Part B: 73 °C (163 °F)
VOC Content ASTM D2369-81	280 g/L
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>	

Chemical Resistance Not intended for direct exposure.

HOW TO USE

Surface Preparation	All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete Preparation masonry and stone, gypsum and cement-based cover boards. Reference separate System Data Sheet for specific surface preparation requirements.
Mixing	Mix ratio is 3.55:1 (A:B) by volume and 4.56:1 (A:B) by weight. Add Part B into Part A and mix with mechanical mixer (Jiffy) at low speed. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and be a uniform amber colour. Do not break down kits into smaller quantities.
Application	Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.
Removal	Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.
Over Painting	Allow primer to cure completely prior to applying membrane resin. Full cure: 30 minutes at 20 °C (68 °F). Ideally, membrane resin will be applied within 24 hours of primer application. Maximum primer exposure is 48 hours. Primer exposed longer than 48 hours, and primer exposed to water during curing and exhibiting a chalky appearance, must be re-primed. Deteriorated primer must be mechanically removed before primer reapplication.

Limitations

- To avoid dew point conditions during application, relative humidity must be no more than 95 % and substrate temperature must be at least 3 °C (5 °F) above measured dew point temperatures.
- Minimum ambient temperature during application and curing of material is 5 °C (41 °F); maximum is 35 °C (95 °F). Surfaces temperatures must be no higher than 60 °C (140 °F).
- Do not apply on substrates with moisture content greater than 4 % by weight, measured by Tramex® Concrete Moisture Encounter Meter.
- Minimum age of concrete must be 21-28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapour transmission will occur during application and cure. This condition may be checked using ASTM D4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.
- Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and throughwall air conditioners, and other means of vapor/odor ingress during application and cure.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- On grade concrete decks should not be covered with Sikalastic® membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® membrane systems without additional deck evaluation and subsequent approval by Sika Canada's Technical Services.
- Not recommended for metal substrates.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY**

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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