

Sika® Bonding Primer

Two-component, rapid curing, water-based epoxy primer

Description	Sika® Bonding Primer is a rapid curing, water-based primer consisting of two components: a prereacted epoxy resin dispersed in water (Part A), and a waterborne modified polyamine solution (Part B). In its wet mixed state, it is milky green and slightly viscous.																																												
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"> ■ Fast cure allows same-day membrane application in most conditions. ■ Low odour, low-VOC formulation. ■ Compatible with most common substrate materials (not for metal surfaces). 																																												
Technical Data	<table border="1"> <thead> <tr> <th>Packaging</th> <th>Part A</th> <th>Part B</th> </tr> </thead> <tbody> <tr> <td>Bonding Primer Kit</td> <td>3 L (0.8 US gal.)</td> <td>.78 L (0.2 US gal.)</td> </tr> <tr> <td></td> <td>18.9 L (5 US gal.)</td> <td>3.78 L (1 US gal.)</td> </tr> <tr> <td>Colour</td> <td colspan="2">White (RAL 9016), Pearl Gray, Steel Gray, Mushroom, Copper Green; custom colours available with minimum order</td> </tr> <tr> <td>Coverage</td> <td colspan="2">32.51 m²/L (350 ft²/US gal.) on non-absorbent smooth substrates. 27.87 m²/L (300 ft²/US gal.) on prepared, dry concrete. 18.58 m²/L (200 ft²/US gal.) on absorbent gypsum and cementitious cover boards. Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield</td> </tr> <tr> <td>Shelf Life</td> <td colspan="2">24 months in original, unopened and undamaged sealed containers. Store dry at 2 - 25 °C (35 - 77 °F). Condition material to 10 - 25 °C (50 - 77 °F) before using.</td> </tr> <tr> <td>Service Temperature</td> <td colspan="2">-30 to 80 °C (-22 to 176 °F)</td> </tr> <tr> <td>Properties at 24 °C (75 °F) and 50% R.H.</td> <td colspan="2"></td> </tr> <tr> <td>Cure Mechanism</td> <td colspan="2">Chemical and evaporative cure.</td> </tr> <tr> <td>Pot Life</td> <td colspan="2">12 hours</td> </tr> <tr> <td>Total Volume Solids</td> <td colspan="2">15 %</td> </tr> <tr> <td>ASTM D2697</td> <td colspan="2"></td> </tr> <tr> <td>Flash Point</td> <td colspan="2">59 °C (110 °F)</td> </tr> <tr> <td>VOC Content ASTM D2369-81</td> <td colspan="2">12.5 g/L</td> </tr> </tbody> </table> <p><small>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.</small></p>			Packaging	Part A	Part B	Bonding Primer Kit	3 L (0.8 US gal.)	.78 L (0.2 US gal.)		18.9 L (5 US gal.)	3.78 L (1 US gal.)	Colour	White (RAL 9016), Pearl Gray, Steel Gray, Mushroom, Copper Green; custom colours available with minimum order		Coverage	32.51 m ² /L (350 ft ² /US gal.) on non-absorbent smooth substrates. 27.87 m ² /L (300 ft ² /US gal.) on prepared, dry concrete. 18.58 m ² /L (200 ft ² /US gal.) on absorbent gypsum and cementitious cover boards. Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield		Shelf Life	24 months in original, unopened and undamaged sealed containers. Store dry at 2 - 25 °C (35 - 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 24 °C (75 °F) and 50% R.H.			Cure Mechanism	Chemical and evaporative cure.		Pot Life	12 hours		Total Volume Solids	15 %		ASTM D2697			Flash Point	59 °C (110 °F)		VOC Content ASTM D2369-81	12.5 g/L	
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Chemical Resistance	Strong resistance to a wide range of reagents, including paraffin, petrol, fuel oil, white spirit, acid rain, detergents and moderate solutions of acids and alkalis. Some low molecular weight alcohols can soften the material. Contact Sika Canada's Technical Service for specific recommendations. <ul style="list-style-type: none"> ■ Salt spray to ASTM B117 (1000 hours continuous exposure) and prohesion testing to ASTM G85-94: Annex A5 (1000 hours cyclic exposure). 																																												
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Surface Preparation	All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and masonry, wood and plywood, mineralized asphaltic cap sheet, sprayed polyurethane foam, gypsum and cementitious cover boards, and coated glass-faced polyisocyanurate foam boards. Reference separate System Data Sheet for specific surface preparation requirements.																																												
Mixing	Mix ratio is 4:1 (A:B) by weight and volume. Add Part B into Part A and mix with stir stick or mechanical mixer (<i>Jiffy</i>) at low speed. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform light green color. 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 clean water. Once cured, primer can only be removed by mechanical means.
Over Painting	Allow primer to cure completely prior to applying membrane resin. 1 hour at 35 °C (95 °F) 2 hours at 20 °C (68 °F) 4 hours at 5 °C (41 °F) Ideally, membrane resin will be applied within 24 hours of primer application. This is required for applications in tropical/subtropical environments to avoid UV-related primer deterioration. Maximum primer exposure is 7 days. Primer exposed longer than 7 days, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.
Limitations	<ul style="list-style-type: none"> ■ 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). Surface 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 vapor 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 Canada 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 Material 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 shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.



Sika Canada Inc.
Head Office
601 Delmar Avenue
Pointe-Claire, Quebec
H9R 4A9

Other locations
Toronto
Edmonton
Vancouver

1-800-933-SIKA
www.sika.ca

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