

PRODUCT DATA SHEET

Sika[®] Concrete Primer

TWO-COMPONENT, RAPID CURING, HIGH SOLIDS POLYUREA/POLYURETHANE- HYBRID PRIMER

PRODUCT DESCRIPTION

Sika[®] Concrete Primer is a two-component, rapid curing, high solids, polyurea/polyurethane-hybrid primer for consistent and durable adhesion of Sikalastic[®] RoofPRO Systems.

USES

Versatile primer on cementitious substrates for use with:

- Sikalastic[®] RoofPRO Systems

CHARACTERISTICS / ADVANTAGES

- Fast curing - overcoat possible after 30 minutes
- Combines rapid cure time with a long pot life.
- Significantly reduces the likelihood of out-gassing from susceptible substrates
- Consolidates dusty or friable surfaces
- Easy application by brush or roller
- Can be filled with quartz sand and used as a scratch coat

PRODUCT INFORMATION

Chemical Base	Two-component solvent-based Polyurea/Polyurethane hybrid	
Packaging	4.5 L kit	3.5 L component A 1.0 L component B
	11.5 L kit	9.0 L component A 2.5 L component B
Appearance / Color	Colourless to pale yellow	
Shelf Life	12 months from date of production	
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 41 °F (5 °C) and 77 °F (25 °C). Higher storage temperatures may reduce shelf life of product. Reference shall also be made to the storage recommendations within the safety data sheet. Condition material to 50°-77°F (10°-25°C) before using forease of application.	
Density	~1.02 kg/l (at 73 °F (23 °C) and 50 % R.H)	
Solid Content	72 %	(ASTM D-2697)
Volatile organic compound (VOC) content	280 g/l	(ASTM D-2369-81)

TECHNICAL INFORMATION

Service Temperature 22–176 °F (-30–80 °C) intermittent

APPLICATION INFORMATION

Mixing Ratio	Component A : Component B = 3.55:1 (by volume)		
Coverage	350 ft ² /gal. on non-absorbent smooth substrates. 300 ft ² /gal. on prepared, dry concrete. 200 ft ² /gal. on absorbent gypsum and cementitious cover boards. Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield.		
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.		
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.		
Substrate Temperature	41 °F (5 °C) min. / 140 °F (60 °C) max.		
Substrate Moisture Content	≤4 % pbw moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	45 minutes Sika® Concrete Primer is designed for fast curing. High temperatures combined with high air humidity will increase the curing process. Thus, mixed material in opened containers should be applied immediately. In opened containers, the material will form a film after approx 45 min..		
Waiting Time / Overcoating	Temperature	Minimum waiting time	Maximum waiting time
	50 °F (10 °C)	60 min.	24 h
	68 °F (20 °C)	30 min.	24 h
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..			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The surface must be sound, of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination. The concrete substrate must be sound and of sufficient compressive strength.

SUBSTRATE PREPARATION

All surfaces to be coated should be thoroughly cleaned by conventional means.
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.
Tiles have to be prepared mechanically, glazing has to be removed
Grinding may be necessary to level the surface.
For detailed information regarding substrate quality /

preparation and primer chart please refer to Sikalastic® RoofPRO Application Manual.

MIXING

Mix ratio is 3.55:1 (A:B) by volume. 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 color.

Do not break down kits into smaller quantities.

APPLICATION

Apply Sika® Concrete Primer 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.

CLEANING OF TOOLS

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.

LIMITATIONS

- Do not apply Sika® Concrete Primer on substrates with rising moisture.
- Do not use Sika® Concrete Primer for indoor applications.
- Freshly applied Sika® Concrete Primer should be protected from damp, condensation and water for at least 24 hours.
- Do not apply close to the air intake vent of a running air conditioning unit.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking (for further information please contact Sika technical service).
- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C).
- 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 D-4263 (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 pin holing 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 to determine substrate moisture content and subsequent approval by Technical Services.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LOCAL RESTRICTIONS

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800.933.7452 nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

ECOLOGY, HEALTH AND SAFETY

Keep container tightly closed. Keep out of reach of children. Not for internal consumption. For industrial use only. For professional use only. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL NOTES

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use. SIKAWARRANTS this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. No other warranties express or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Sika shall not be liable under any legal theory for special or consequential damages. Sika shall not be responsible for the use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. Sale of Sika products are subject to Sika's terms and conditions of sale available at <http://usa.sika.com/> or by calling 201-933-8800.

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