

## PRODUCT DATA SHEET

# Sikalastic® GDC Primer

Moisture mitigating primer for Green, Damp and Dry Concrete

## PRODUCT DESCRIPTION

Sikalastic® GDC Primer is a 2-component, moisture mitigating epoxy primer for Green, Damp and Dry Concrete surfaces as well as dry wood. Sikalastic® GDC Primer can be used in conjunction with both Sikalastic RoofPro and RoofCoat products.

## USES

- Green Concrete
- Damp Concrete
- Moisture Mitigation
- Split-Slab Moisture Mitigation
- Dry Plywood

## CHARACTERISTICS / ADVANTAGES

- Application on Green and Damp Concrete
- Solvent-free
- Easy roller applied application, low viscosity
- Convenient, easy to mix packaging
- Shorter construction schedules
- Excellent penetration and stabilization of porous substrates
- Use on dry wood only

## APPROVALS / STANDARDS

ASTM E96 - water vapor transmission  
ASTM C794 / ASTM D903 - wet adhesion to concrete

## PRODUCT INFORMATION

Chemical Base	2-component epoxy
Packaging	Component A: 5 gal pail filled to 3 gal Component B: 2 gal pail filled to 1 gal
Shelf Life	24 months
Storage Conditions	Store dry at 50–77 °F (10–25 °C). Protect from moisture.
Density	69 lb/ft <sup>3</sup> (1.1 kg/l)
Solid content by volume	96%
Volatile organic compound (VOC) content	24 g/l

## TECHNICAL INFORMATION

Service Temperature	-40 to 158 °F (-40 to 70 °C)
Permeability to Water Vapor	0.16 PERMS <span style="float: right;">ASTM E96</span>

## APPLICATION INFORMATION

Mixing Ratio	Component A to Component B = 3 to 1 (by volume)	
Coverage	380–450 ft <sup>2</sup> (35.3–41.8 m <sup>2</sup> ) per pail MUST produce a monolithic, pinhole-free and continuous mirror-like film finish. The need for multiple coats is directly related to surface absorption and substrate roughness.	
Product Temperature	Condition material to 50–86 °F (10–30 °C) before using for ease of application.	
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.	
Dew Point	Surfaces may be damp but surfaces with condensation present should be avoided. Substrate temperatures should be 5°F (3°C) or more above the dew point before application. Avoid application during rising substrate temperatures to significantly reduce the chance of pin holes.	
Substrate Temperature	41 °F (5 °C) min. / 140°F (60°C) max.	
Substrate Moisture Content	Saturated surface dry concrete (damp) conditions are acceptable but physical moisture from condensation should be avoided. Residual moisture up to 100 % R.H. or 25 lb/1,000 ft <sup>2</sup> /24 hr (11.4 kg/92.9 m <sup>2</sup> /24 hr). <b>Application to Damp Concrete:</b> Sikalastic® GDC Primer can be applied to damp concrete as soon as surface water has dissipated after rainfall or other sources of water have ceased. <b>Application to Green Concrete:</b> Sikalastic® GDC Primer can be applied to horizontal concrete surfaces 48 hours after concrete pour (or when concrete is walkable) and vertical surfaces 24 hours after forms are removed.	
Pot Life	~ 60 minutes at 50 °F (10 °C) ~ 30 minutes at 68 °F (20 °C) ~ 15 minutes at 86 °F (30 °C)	For best working time, pour pail contents onto the desired substrate instead of working from the pail.
Waiting / Recoat Times	Minimum time: cured. Maximum time: 72 hours. * When Sikalastic® GDC Primer is left on the substrate for more than 72 hours, scuff sand/deglaze the surface and solvent wipe before proceeding with second coat of primer.	
Applied Product Ready for Use	50 °F (10 °C) 73 °F (23 °C) 86 °F (30 °C)	18 hours 8 hours 6 hours

## 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.

## LIMITATIONS

- Proper coverage must be used to achieve moisture barrier properties
- Only protects from moisture coming from below the concrete
- Will not prevent hydrostatic pressure
- When left on the substrate for more than the maximum allowable open time of 72 hours, surface must be reprimed
- Do not apply if rain is expected before the final cure of the primer
- Do not thin with solvents
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperatures. If applied during rising temperature pinholing may occur

## ENVIRONMENTAL, HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

For all concrete (green, damp and dry):

- Substrate must be clean, sound and free from oils, grease, dust, laitance and loose or friable particles. Paint, laitance, and other poorly adhering contents must be mechanically removed
- Substrate must have an open textured surface to allow Sikalastic® GDC Primer to penetrate (i.e. blast cleaning and grinding are considered acceptable means to achieve the desired surface profile. Acid and chemical etching are not acceptable to achieve the desired surface profile)
- Concrete surfaces should have a Surface Profile (CSP) of 2 to 5
- Before overall installation begins, Sika® recommends the application of several small test patches to determine primer application requirements and acceptability of final product performance
- Adhesion in peel tests should result in > 8 lbs per linear inch (PLI)
- Minimum substrate compressive strength > 3000 psi. at the time Sikalastic® GDC Primer is applied
- On fiber reinforced concrete, fibers should be flamed off the surface prior to application of Sikalastic® GDC Primer as a moisture barrier

### Additional clarification for green (under 28 days old) concrete:

- Substrate must have an open textured surface to allow Sikalastic® GDC Primer to penetrate. If green concrete surfaces have Concrete Surface Profile (CSP) of 2 to 5, powerwashing the surface may be the only surface preparation method required to remove any concrete laitance
- If the green concrete surfaces do not have a Concrete Surface Profile (CSP) of 2 to 5, reprofiling by blast cleaning and grinding are considered acceptable means to achieve the desired surface profile. Acid and chemical etching are not acceptable means to achieve the desired surface profile

### MIXING

Premix each component. Add one full can of component B to one full can of component A then mix with an electric drill and mixing (Jiffy Mixer type) paddle at a low speed keeping the paddle in the product to reduce air entrainment (300–400 rpm). Using a paint stick or similar is not sufficient to mix the primer. Mix for a minimum 3 minutes; continue mixing until a homogeneous mix has been achieved. During mixing, scrape sides of pail with paint stick or paddle to ensure all contents are thoroughly mixed together. Unmixed material will not cure properly when applied.

### APPLICATION

Apply Sikalastic® GDC Primer uniformly (in 2 directions 90°) to the substrate using a medium nap roller, ensuring that a continuous coat is achieved over the entire surface. Pour contents of pail onto the desired substrate for best working time. Attempting to work from the pail will reduce working time.

Application MUST produce a mirror like finish.

For applications requiring two coats, apply the first coat at 10 mils (160 ft<sup>2</sup>/gal) and allow to cure. Then, apply the second coat at 15 mils (100 ft<sup>2</sup>/gal) in accordance with the open time and application time windows.

### CLEANING OF TOOLS

Clean all tools and application equipment with cleaning solvent (Xylene, Acetone, are effective). Hardened/cured material can only be removed mechanically.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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