

## PRODUCT DATA SHEET

# Sikalastic® Conductive Primer

Two-component epoxy, universal conductive primer for high voltage, dry electronic leak detection testing

### PRODUCT DESCRIPTION

Sikalastic® Conductive Primer consists of two components: an epoxy resin (Part A) with conductive fibers and an activator (Part B). In its wet mixed state it is red in color.

This primer allows for electric currents to go through potential voids in Sikalastic membranes and can be grounded without the need for a conductive substrate. This enables a dry, high voltage (min. 7.56kv) electronic leak detection testing technique.

### USES

- Dry, high voltage (minimum 7.56kv) testing for voids in 14-day cured Sikalastic membranes
- Versatile primer for use with Sikalastic® RoofPro systems
- Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required
- Acceptable substrates include · gypsum based and cement based cover boards · sound concrete and masonry · wood and plywood · modified bitumen membrane · mineralized asphaltic cap sheet · asphalt and mastic · ferrous metals · galvanized · lead · copper · aluminum · brass · stainless steel · Sarnafil® membranes · Sikaplan® membranes
- All substrate surfaces must be completely dry to enable the high voltage testing

### CHARACTERISTICS / ADVANTAGES

- Low odor, low VOC formulation
- Conductive fibers allow for high voltage (dry) electronic leak detection (ELD)
- Capable ELD testing for the life of the roofing/waterproofing assembly
- Compatible with most common substrate and flashing materials
- For use as a primer no need for additional primers
- Corrosion protection in industrial and marine environments
- Enhances adhesion to a broad range of metallic substrates
- Protects against migration of volatile bitumen or plasticizers
- Easy application by squeegee and back roll

## PRODUCT INFORMATION

Packaging	2-gal. kit (0.77 gal. Part A, 0.23 gal. Part B) 2 A's in a box; 2 B's in a box
Shelf Life	24 months
Storage Conditions	Store dry between 40 °F and 95 °F (2–35 °C) Condition material to 50–77 °F (10–25 °C) before using for ease of application
Color	Red
Solid content by volume	91%
Volatile organic compound (VOC) content	82 g/l (A + B Combined)

## TECHNICAL INFORMATION

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

Mixing Ratio	Component A to Component B = .77 to .23 (by volume) PREMIX PART A BEFORE MIXING PARTS A & B TOGETHER		
Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max.		
Relative Air Humidity	80 % R.H. 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 % moisture content Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	45 minutes		
Open Time	Maximum primer exposure is 72 hours. Primer exposed longer than 72 hours, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.		
Cure Time	Minimum 24-hour cure time for best conductivity (68° F, 50%R.H.)		
Waiting / Recoat Times	Ambient Temperature	Minimum Waiting Time	Maximum Waiting Time Touch Dry
	50 °F	12 hours	72 hours 8 hours
	68 °F	9 hours	72 hours 4 hours
	88 °F	6 hours	72 hours 3 hours
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			

## 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.

## USES

- 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 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 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 through-wall air conditioners, and other means of 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 deck evaluation and subsequent approval by Technical Services.
- RoofPro System must be cured minimum of 14-days before high voltage electronic leak detection testing

can be done.

- Do not conduct high voltage testing on wet or damp surfaces.
- High voltage testing must be done with equipment capable of minimum 7.56kv capacity.

## ENVIRONMENTAL, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: gypsum based and cement based cover boards, sound concrete and masonry, wood and plywood, modified bitumen membrane, mineralized asphaltic cap sheet, asphalt and asphalt mastic, ferrous metals, galvanized, lead, copper, aluminum, brass, and stainless steel. Reference separate System Data Sheet for specific surface preparation requirements.

### MIXING

Mix ratio is .77 to .23 (A:B) by volume.

PREMIX PART A BEFORE MIXING PARTS A & B TOGETHER.

Add Part B into Part A and mix with a mechanical mixer (Jiffy) at low speed for 3 minutes. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform red color. Do not break down kits into smaller quantities.

### APPLICATION

Apply with an 1/8" notched squeegee and back roll with 3/8" nap phenolic core roller rated for epoxies. Correct amount of primer is applied evenly with no puddling. Substrate should have a thin uniform textured top surface.

### CLEANING OF TOOLS

Remove wet primer with solvents. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.

## 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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



**Product Data Sheet**

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