BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic® EP Primer/Sealer

Two-component universal epoxy primer for use with Sikalastic® roofing and waterproofing systems

PRODUCT DESCRIPTION

Sikalastic® EP Primer/Sealer consists of two components: an epoxy resin (Part A), and an activator (Part B). In its wet mixed state, it is red in color.

USES

- Versatile primer for use with Sikalastic® roofing and waterproofing systems
- Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required
- Bleed blocker for residual asphalt contaminated vertical flashing substrates
- Acceptable substrates include · sound concrete and masonary · wood and plywood · modified bitumen membrane · mineralized asphaltic cap sheet · asphalt and mastic · ferrours metals · galvanized · lead · copper · aluminum · brass · stainless steel · Sarnafil® membranes · Sikaplan® membranes

CHARACTERISTICS / ADVANTAGES

- Low odor, low VOC formulation
- Compatible with most common substrate and flashing materials
- 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 brush or roller

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	1 gal. kit (0.75 gal. Part A, 0.25 gal. Part B) 4 gal. kit (3.0 gal. Part A, 1.0 gal. Part B)	
Color	Red	
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.	
Volatile organic compound (VOC) content	72 g/l	(ASTM D-2369-81)

Solid content by volume	92%	(ASTM D-2697)

TECHNICAL INFORMATION

Service Temperature	-22–176 °F (-30–80 °C) intermittent
Adhesion in peel	Adhesion tests should be completed at a minimum of 72 hours after application. Sikalastic® EP Primer/Sealer may take 1 week to reach final adhesion strength depending on temperature and other climate conditions. Refer to adhesion test protocol on the Sika website.

APPLICATION INFORMATION

Mixing Ratio	Component A to Component B = 3 to 1 (by volume) PREMIX PART A BEFORE MIXING PARTS A & B TOGETHER
Coverage	Coverage: 200 - 250 ft²/gal. on non-absorbent smooth substrates 150 - 200 ft²/gal. on prepared, dry concrete 75 - 100 ft²/gal. on mineral surfaced modified bitumen 200 ft²/gal. (max) when ussed as an asphaltic bleed blocker 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.
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
Waiting / Recoat Times	Before applying any recommended Sikalastic® resin allow:

Ambient Temperature	Mimimum Waiting Time	Maximum Waiting Time
50 °F and Below	24-48 hours	72 hours
68 °F	12 hours	72 hours
88 °F	6 hours	72 hours

NOTE: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.
Ideally, membrane resin will be applied within 24 hours of primer application and cure. 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.

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

- 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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

• All substrate surfaces shall be clean, dry and sound
• Acceptable substrates include: 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
• Ferrous metals should be thoroughly cleaned by grinding or blast cleaning prior to priming (SSPC-SP3 to SP11 near-white metal)
• Non-ferrous metals are prepared by removing any deposits of dust and oxidation and abrading to bright metal
• New concrete must cure a minimum of 28 days and should have a minimum compressive strength of 20.7 MPa (3000 psi) and exhibit a minimum tensile bond strength of 1.4 MPa (200 psi). time
• Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface (CSP 2-4 per ICRI guidelines)
• Reference separate System Data Sheet for specific surface preparation requirements

MIXING

Mix ratio is 3 to 1 (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 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 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 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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