



## PRODUCT DATA SHEET

# Sikalastic®-720 Base

TWO-COMPONENT, FAST-CURING, SOLVENT-FREE, CRACK-BRIDGING, ELASTOMERIC POLYURETHANE BASE COAT

### PRODUCT DESCRIPTION

Sikalastic®-720 Base is a two-component, aromatic, chemically cured, elastomeric polyurethane coating intended for use as the waterproofing base coat under polyurethane or epoxy wearing surfaces for pedestrian and vehicular traffic bearing applications, and as the waterproofing base coat under a separate wearing course such as concrete or asphalt pavement, and tile in a setting bed.

### USES

Sikalastic®-720 Base may only be used by experienced professionals.

- Multi-story parking garages
- Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arena
- Plaza and rooftop decks
- Balconies
- Roofing Flood Coat when mixed with approved aggregate

### CHARACTERISTICS / ADVANTAGES

- Low odor and fast turnaround
- Excellent crack-bridging properties and flexibility, even at low temperatures
- Resistant to water and de-icing salts
- Alkaline resistant

### PRODUCT INFORMATION

<b>Packaging</b>	20 gal. kit - four 5 gal. pails (net 4 gal. each) Part A and four 1 gal. cans Part B
<b>Shelf Life</b>	12 months in original, unopened containers
<b>Storage Conditions</b>	Store dry at 40–95 °F (4–35 °C). Condition material to 65–85 °F (18–30 °C) before using.
<b>Appearance / Color</b>	Gray/White

<b>Solid content by volume</b>	100 %	(ASTM D-2697)
<b>Volatile organic compound (VOC) content</b>	See Product Safety Data Sheet	

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	80 +/- 5 (75 °F (24 °C) and 50 % R.H.)	(ASTM D-2240)
<b>Tensile Strength</b>	2500 +/- 100 psi (75 °F (24 °C) and 50 % R.H.)	(ASTM D-412)
<b>Elongation at Break</b>	800 +/- 50 % (75 °F (24 °C) and 50 % R.H.)	(ASTM D-412)
<b>Tear Strength</b>	300 +/- 25 pli (75 °F (24 °C) and 50 % R.H.)	(Die C, ASTM D-624)
<b>Chemical Resistance</b>	Resistant to de-icing salts, and alkaline concrete and cementitious mortars/tile adhesives.	

## APPLICATION INFORMATION

<b>Coverage</b>	70 ft <sup>2</sup> /gal. at 23 wet mils (23 dry mils)
<b>Pot Life</b>	10–15 minutes

## 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.
- Maximum moisture content of substrate: 4 % by weight with Sikalastic® Primer, Sikalastic® FTP Primer, Sikalastic® PF LoVOC Primer and 6 % by weight with Sikalastic® FTP LoVOC Primer, Sikalastic® MT Primer.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 90 °F (32 °C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.
- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8–12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- On grade, lightweight concrete, asphalt pavement, and applications where chained or studded tires may be used should not be coated with Sikalastic® traffic systems.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation and priming with a moisture-blocking primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, asphalt pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to continuous immersion or ponding water.
- Sikalastic®-720 Base is not UV stable and must be top coated or protected by a separate wearing course.
- Sikalastic®-720 Base must be kept clean and recoated within 24 hours. If this window is exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.
- Cracks or ruptures which develop in the structure after the waterproofing traffic system has been installed will

not be bridged by the waterproofing traffic system and need to be repaired according to the recommended standard crack treatment details per this PDS.

- When using Sikalastic®-720 Base as a Roofing Flood Coat contact Sika or your local Tech Field Service Rep prior to application.

## 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

### SURFACE PREPARATION

Surface must be clean, dry, and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.

**Concrete** - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines).

**Plywood** - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex® sealant and detailed and may need embedded fabric reinforcement. Preferred primer is Sikadur®- 22 Lo-Mod FS, offers the best substrate for the ensuing Sikalastic® system on Plywood.

**Metal** - Metal must be in sound condition. The surface should be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter. Be aware of dew point and check it before every application on metal surface.

- Ferrous Metals: Must be prepared to SSPC-SP6/NACE 3. For areas where SSPC-SP6/NACE 3 is prohibited or not feasible, substrate can be thoroughly cleaned by grinding or other power tools per SSPC-SP11.
- Non-Ferrous Metals: Prepare to a bright metal surface. Wire brushing can be used for soft metal such as copper or lead.
- Galvanized Steel: White rust must be removed from galvanized steel, with care taken not to damage or remove the galvanizing.
- Stainless Steel: Must be mechanically abraded or ground to create an appropriate anchor profile.

### Priming

**Primer Selection** - Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter.

**Sikalastic® Primer** – For concrete decks with a maximum moisture content of 4 % by weight, apply Sikalastic® Primer with a flat squeegee or phenolic resin core roller at approximately 250 - 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikadur®-22 Lo-Mod FS-** For concrete with a maximum moisture content of 4 % by weight, plywood decks, and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod FS with a flat squeegee or roller at approximately 10 mils at 160 sf/gal. Apply evenly without puddling. Allow primer to cure until tack-free, typically 2-4 hours (at 75°F (24°C) 50 % R. H). Sikadur®-22 Lo-Mod FS should be overcoated within 36 hours after tack-free. Refer to a separate product data sheet for additional information.

**Sikalastic® FTP Primer** – For concrete decks with a maximum moisture content of 4 % by weight, and for weathered plywood decks, apply Sikalastic® FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikalastic® PF Lo-VOC Primer** - For concrete and plywood decks with a porous or rough surface, and for metal flanges and penetrations, use Sikalastic® PF Lo-VOC Primer. For exterior exposed concrete decks with a maximum moisture content of 4 % by weight, interior protected concrete decks with a maximum moisture content of 5 % by weight, and plywood decks, apply Sikalastic® PF Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately 200 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5 % by weight, two applications of Sikalastic® PF Lo-VOC Primer are required. Refer to separate primer data sheet for additional information.

**Sikalastic® FTP LoVOC Primer** - For concrete with a maximum moisture content of 5 % by weight, and for metal flanges and penetrations, apply Sikalastic® FTP LoVOC Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic® FTP LoVOC Primer with a flat squeegee or phenolic resin roller at approximately 175 -

220 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

**Sikalastic® 100 VB** - For concrete with a maximum moisture content of 5 % by weight, apply Sikalastic® 100 VB with a flat squeegee or roller at approximately 160 sf/gal. For concrete decks with a maximum moisture content of 6% by weight or applications, apply two applications of Sikalastic® 100VB with a flat squeegee or phenolic resin roller at approximately 160 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing and puddles are avoided. For applications as a moisture barrier and additional information refer to separate primer data sheet.

**Sikalastic® Recoat Primer** – For existing polyurethane coatings, incidental exposed concrete deck areas, and as an interlaminar primer, apply Sikalastic® Recoat Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® Recoat Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikalastic® EP Primer/Sealer** - For Wood (timber, plywood), Metal (aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc), and for existing asphaltic gravel roofs prior to Flood Coat application. Apply by brush or phenolic resin core roller at the recommended rate, 100-250 sf/gal depending on the substrate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling. Refer to separate primer data sheet for additional information

**Sikadur®-22 Lo-Mod LT**- For cold weather applications on concrete with a maximum moisture content of 4 % by weight and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod LT with a flat squeegee or roller at approximately 160 sf/gal. Apply evenly without puddling. Allow primer to cure until tack-free, typically 2-4 hours (at 50°F (10°C) 50 % R.H). Sikadur®-22 Lo-Mod LT should be overcoated within 36 hours after tack-free. Refer to a separate product data sheet for additional information

## Detailing

**For cracks less than 1/16" width:** Apply a 23 mil detail coat of Sikalastic®-720 Base, extending 2" on either side and centered over the crack.

**For cracks 1/16" width or greater and less than 1" width:** Must be routed to at least 1/4" by 1/4", and sealed with an appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 23 mil detail coat of Sikalastic®-720 Base, extending 2" on either side and centered over the crack. Non-moving cracks can be filled with compatible rigid repair materials.

NOTE: Cracks may indicate a structural issue and should be addressed by a structural engineer or appropriate design professional.

**For joints 1/16" or greater and up to 1" width:** Joints should be sealed with the appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 23 mil detail coat of Sikalastic®-720 Base, extending 2" on either side and centered over the crack.

**For joints greater than 1" width:** Should be treated as expansion joints and brought up through the system and/or use Emseal Expansion Joint. For additional questions please contact Sika Technical Services.

**Fabric Reinforcement:** An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

**Panelized Joints:** Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex® sealant. For additional questions please contact Sika Technical Services.

## MIXING

Premix Part A and Part B components using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

## APPLICATION

Apply at the recommended coverage rate (see appropriate System Guide) using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 3–4 hours at 70 °F and 50 % R.H. or until tack free before top coating.

When used under an overburden system an additional coat of Sikalastic®-720 Base, fully broadcast, is required, allow coating to cure for a minimum of 36 hours before installing separate overburden.

## Removal

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

## 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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### Product Data Sheet

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