

## PRODUCT DATA SHEET

# Sikalastic®-720 One Shot

TWO-COMPONENT, INTEGRAL TEXTURE, FAST CURING, EXTREMELY DURABLE, ONE STEP POLY-URETHANE TRAFFIC COATING SYSTEM.

### PRODUCT DESCRIPTION

Sikalastic®-720 One Shot is a two-component, integral texture, fast-curing, aliphatic, chemically cured, elastomeric polyurethane waterproofing coating intended for vehicular and pedestrian traffic. Applied in a single step the Sikalastic®-720 One Shot system replaces the standard traffic coating systems of a base coat and multiple top-coats. Sikalastic®-720 One Shot meets the requirements of ASTM C957 "Standard Specification for High-Solids Content, Cold Liquid Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface."

### USES

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

Typical applications include:

- Multi-story parking garages
- Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arenas
- Plaza and rooftop decks

### PRODUCT INFORMATION

<b>Packaging</b>	9.6 gal two component kit, 2x 4.32 gal. comp. A with aggregate insert, 2x 0.48 gal. comp. B
<b>Color</b>	Available in Gray and Charcoal
<b>Shelf Life</b>	1 year in original, unopened containers.

### CHARACTERISTICS / ADVANTAGES

- Achieves a 45 mil system in one single coat application
- Integral Texture for superior durability
- Outstanding resistance to abrasion and wear
- Fast turnarounds - open to traffic in 36 hours!
- Full Aliphatic system- UV resistance throughout
- Resistant to deicing salts

### APPROVALS / STANDARDS

- Meets ASTM C957 "Standard Specification for High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane With Integral Wearing Surface".

<b>Storage Conditions</b>	Store dry at 41-95 °F (5-35 °C). Condition material to 65-85 °F (18-30 °C) before using.	
<b>Solid content by volume</b>	95% including aggregate	
<b>Volatile organic compound (VOC) content</b>	<100 g/L	

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	90+/- 5	(ASTM D-2240) 75°F (24°C) 50 % R. H								
<b>Tensile Strength</b>	2400 psi +/- 100	(ASTM D-412) 75°F (24°C) 50 % R. H								
<b>Elongation at Break</b>	500 % +/- 50%	(ASTM D-412) 75°F (24°C) 50 % R. H								
<b>Tensile Adhesion Strength</b>	<table border="1"> <thead> <tr> <th>Primer</th> <th>Failure Mode</th> </tr> </thead> <tbody> <tr> <td>Sikalastic-MT Primer</td> <td>Substrate (Concrete)</td> </tr> <tr> <td>Sikadur-22 LM FS</td> <td>Substrate (Concrete)</td> </tr> <tr> <td>Sikadur- 57 LM</td> <td>Substrate (Concrete)</td> </tr> </tbody> </table>	Primer	Failure Mode	Sikalastic-MT Primer	Substrate (Concrete)	Sikadur-22 LM FS	Substrate (Concrete)	Sikadur- 57 LM	Substrate (Concrete)	(ASTM D-4541) 75°F (24°C) 50 % R. H
Primer	Failure Mode									
Sikalastic-MT Primer	Substrate (Concrete)									
Sikadur-22 LM FS	Substrate (Concrete)									
Sikadur- 57 LM	Substrate (Concrete)									
<b>Tear Strength</b>	300 pli +/- 50	(Die C, ASTM D-624) 75°F (24°C) 50 % R. H								

## APPLICATION INFORMATION

<b>Coverage</b>	33 sf/gal 158 sf/ 4.8 gal A+B mix
<b>Layer Thickness</b>	45 mils dry (48 WFT)
<b>Pot Life</b>	20 min at 75°F (24°C) 50 % R. H

## 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.

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## LIMITATIONS

- Do not apply in conditions when concrete is outgassing and has potential to cause pinholing in the system.
- 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 temperature.
- Maximum moisture content of concrete substrate by weight when measured with a Tramex CME is 4%. If higher then see primer requirements for proper application.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 95 °F (35 °C).
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- 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 product solutions). Surface irregularities may reflect through the cured system and should be mitigated.

- 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 6–12 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 required.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and for vapors into the building/structure during product application and cure.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used, must not be coated with Sikalastic Traffic Systems without Sika technical review. Contact Sika Technical Services or Product Engineering.
- Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture tolerant primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to ponding water or continuous immersion.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

## 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

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., must be removed to achieve a level surface prior to

the application.

**Concrete** - Must be cleaned and prepared to achieve a laitance and contaminant-free, open-textured surface by blast cleaning or equivalent mechanical means. The desired surface texture is CSP 3 per ICRI Guidelines. In addition, the substrate surface must be thoroughly cleaned by blowing/vacuuming to remove all particulates that may interfere with coat bonding.

**Plywood** – Must be clean and smooth, APA and exterior grade, not less than ½” thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex® 2c NS EZ Mix or Sikaflex® 1a and detailed, and may need embedded fabric reinforcement.

**Metal** - Must be thoroughly cleaned by grinding or blast cleaning. Sikalastic EP Primer is recommended to be used for proper adhesion and corrosion protection.

### DETAILING

**Non-structural cracks up to 1/16 inch** – Apply a detail coat of a Sikalastic® Base Coat at 23 mils wet, 4” wide, centered over the crack. Allow to become tack free before overcoating.

**Cracks and joints over 1/16 up to 1 inch** – Seal previously routed and primed cracks and joints with Sika Sealant and allow to skin over and cure for 24 hours min. Apply a detail coat of a Sikalastic® Base Coat at 23 mils wet, 4” wide, centered over the crack. Allow to become tack free before overcoating.

**Joints over 1 inch** – Should be treated as expansion joints and brought up through the Sikalastic® 720 One Shot Traffic System and sealed with Sika sealant (see Sealant Guide).

### PRIMING

**Primer Selection** - Primer is required for all applications of Sikalastic®-720 One Shot. For applications over concrete, the primer used will depend on the moisture level of the concrete. Measure the moisture content of concrete substrate with a Tramex CME or CMExpert type concrete moisture meter.

**Sikadur®-22 Lo-Mod FS-** For concrete with a maximum moisture content of 4 % by weight and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod FS 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 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 LoVOC Primer** - For plywood decks, concrete with a maximum moisture content of 5 % by weight, apply a single coat application of 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. Apply evenly without puddling. Refer to separate primer

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data sheet for additional information.

**Sikalastic® MT Primer** - For concrete with a maximum moisture content of 5 % by weight, and for metal flanges and penetrations, apply a single coat application of Sikalastic® MT 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® MT Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing. Apply evenly without puddling. Refer to a separate primer data sheet for additional information.

**Sikalastic® EP Primer/Sealer**- For Wood (timber, plywood) and Metal (aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc). 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.

**Sikadur®-57 Lo-Mod LV**- For concrete with a maximum moisture content of 4 % by weight, apply a single coat application of Sikadur®-57 Lo-Mod LV with a flat squeegee or roller at approximately 125-150 sf/gal. Apply evenly without puddling. Refer to a separate product data sheet for additional information.

**Sikalastic® Primer** – For existing polyurethane coatings only, apply Sikalastic® Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. Work primer well into the substrate to ensure adequate penetration and sealing. Apply evenly without puddling. Sikalastic® Primer is not suitable for metal substrates. Refer to a separate primer data sheet for additional information.

## MIXING

After opening Part A place lid face up on ground, remove aggregate insert and place insert on pail lid. Premix Part A component using a low speed (400–600 rpm) mechanical mixer and Jiffy Paddle (5-50 gal. model) at slow speed to obtain uniform color. Slowly add aggregate from tray into Part A and continue to mix, making sure to scrape the bottom and sides of the pail, ensure aggregate is fully mixed within the Part A. Slowly pour Part B into Part A while mixing so that the Part B gets pulled into the vortex of the mixing paddle. Scrape the sides of the container, Mix the combined material thoroughly for 3 minutes until a homogenous mixture and uniform color is obtained. Use care not to prevent whipping air into the material while mixing - use a slow and methodical mixing approach.

## APPLICATION METHOD / TOOLS

After mixing, immediately pour the mixed Sikalastic®-720 One Shot onto the substrate. Leaving the Sikalastic®-720 One Shot in the pail will shorten the working time and pot life and will result in loss of material. Material should be poured out in a ribbon fashion and not in one large puddle. This will help make sure to get the most effective squeegee application. Apply Sikalastic®-720 One Shot over the entire area including previously detailed cracks. Coating should be tack free after about 6 hours at 70 °F and 50 % RH. Allow coating to cure for a minimum of 36 hours before opening to vehicular traffic

**Proper Squeegee:** Use a 3/8" notched squeegee or trowel to achieve the proper wet film thickness of 48 mils (45 mill DFT). The squeegee must be stiff enough to not bend when significant pressure is placed on it - this will result in improper thickness. It is highly recommended to check thickness with a wet film gage as work is progressing.

**Proper Roller:** Phenolic resin core roller with 3/8" Nap  
**Squeegee Application and Finish Rolling:** Push squeegee behind ribbon of material with consistent pressure on squeegee, do not pull squeegee towards applicator. After squeegeeing material to proper thickness, backroll material in **two directions**; one perpendicular to the other. Wet roller with excess material prior to backrolling, using a dry roller for backrolling will result in improper application thickness. Do not apply pressure with roller, do not push material with roller. If backrolled more than one time in each direction final texture could be inconsistent.

## CLEANING OF TOOLS

Clean tools with solvent that is acceptable to be used based on local regulations. Xylene, Acetone and MEK, if accepted locally are effective for cleaning tools and equipment.

## 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 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. SIKA warrants 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 the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. 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 the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 201-933-8300.

### 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)

### Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



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