

PRODUCT DATA SHEET

Sikalastic®-720 One Shot

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

PRODUCT DESCRIPTION

Sikalastic®-720 One Shot is a two-component, fast-curing, aliphatic, chemically cured, elastomeric polyurethane waterproofing coating with integral texture 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.

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

Packaging	9.6 gal two-component kit; 2 x 3.58 gal. A component, 2 x 0.48 gal. B component, 2 x 8 lbs. C component
Color	Available in Gray and Charcoal
Shelf Life	1 year in original, unopened containers.
Storage Conditions	Store dry at 41-95 °F (5-35 °C). Condition material to 65-85 °F (18-30 °C) before using.
Volatile organic compound (VOC) content	See Product Safety Data Sheet

CHARACTERISTICS / ADVANTAGES

- Achieves a 45 mil traffic system in a single coat application
- Integral Texture for superior durability
- Available in Heavy Duty (HD) and Extra heavy Duty (EHD) Textures
- Outstanding resistance to abrasion and wear from top to bottom
- 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".

TECHNICAL INFORMATION

Testing	90+/- 5	(ASTM D-2240) 75°F (24°C) 50 % R. H								
Tensile Strength	2400 psi +/- 100	(ASTM D-412) 75°F (24°C) 50 % R. H								
Elongation at Break	450 % +/- 50%	(ASTM D-412) 75°F (24°C) 50 % R. H								
Tensile Adhesion Strength	<table border="1"> <thead> <tr> <th>Primer</th> <th>Failure Mode</th> </tr> </thead> <tbody> <tr> <td>Sikadur-22 LM FS</td> <td>Substrate (Concrete)</td> </tr> <tr> <td>Sikalastic-100 VB</td> <td>Substrate (Concrete)</td> </tr> <tr> <td>Sikadur- 57 LM</td> <td>Substrate (Concrete)</td> </tr> </tbody> </table>	Primer	Failure Mode	Sikadur-22 LM FS	Substrate (Concrete)	Sikalastic-100 VB	Substrate (Concrete)	Sikadur- 57 LM	Substrate (Concrete)	(ASTM D-4541) 75°F (24°C) 50 % R. H
Primer	Failure Mode									
Sikadur-22 LM FS	Substrate (Concrete)									
Sikalastic-100 VB	Substrate (Concrete)									
Sikadur- 57 LM	Substrate (Concrete)									
Tear Strength	300 pli +/- 50	(Die C, ASTM D-624) 75°F (24°C) 50 % R. H								

APPLICATION INFORMATION

Coverage	33 sf/gal 158 sf/Pail (4.8 gal A+B+C mix)
Layer Thickness	45 mils dry (48 WFT)
Pot Life	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

- 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).

- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pin holing may occur.
- 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).
- 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.
- 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.
- 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.

- 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.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Sika Technical Services is required.
- Unvented metal pan decks or decks containing a between-slab membrane requires 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, may need embedded fabric reinforcement.

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.

Existing Coatings - Should be cleaned and mechanically abraded to provide a contaminant-free, open-textured surface. Followed by a solvent wipe or mop as allowed by state and local regulations. After solvent flashes off proceed with approved primer for existing coating.

DETAILING

For cracks less than 1/16” width: Apply a 23 mil detail coat of a Sikalastic® Base Coat, 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 ¼” by ¼”, and sealed with an appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 23 mil detail coat of a Sikalastic® Base Coat, 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 a Sikalastic® Base Coat, 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 up to 1.5" wide, that are restrained across the joint and without differential movement, may be sealed the Sikalastic Traffic System, including the detail coat, and applied over joint. The traffic system applied over the panelized joint should accommodate movement characteristics comparable to those of the joint sealant used.

NOTE: Panelized joints that experience movement within the panelized joint or are over 1.5" wide may cause deterioration of the waterproofing system, 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 guidance, please contact Sika Technical Services.

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, 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 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 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 to achieve 10 mils. For concrete decks with a maximum moisture content of 6% by weight or applications, apply two applications of Sikalastic® 100 VB with a flat squeegee or phenolic resin roller at approximately 160 sf/gal to achieve 10 mils 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® 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

Premix Part A 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 Part C (aggregate) into Part A and continue to mix, ensure aggregate is fully mixed within the Part A. Slowly pour Part B into Part A+C while mixing so that the Part B gets pulled into the vortex of the mixing paddle. Mix the combined material thoroughly for 3 minutes until a homogenous mixture and uniform color is obtained, ensuring to scrape the sides and bottom of the container. Use care to prevent whipping air into the material while mixing - use a slow and methodical mixing approach.

APPLICATION

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" V-notched squeegee or trowel to achieve the proper wet film thickness of 48 WFT (45 DFT). The squeegee must be stiff enough not to 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 gauge as work progresses. Decks with heavy undulations may benefit from a smaller width squeegee. Sika also offers a recommended squeegee, listed below for Sikalastic®-720 One Shot, contact your local Sika rep for more information. (Seymour Midwest's Speed Squeegee HD 3/8" W x 1/4" D (30-45 mil)).

Squeegee Application and Finish Rolling: Push squeegee behind ribbon of material with consistent pressure on squeegee, do not pull squeegee towards applicator. All material applied should pass through the squeegee notches. After squeegeeing material to proper thickness, backroll with 3/8" nap phenolic resin core roller 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.

Note: For applications with heavy undulations in the substrate, following a squeegee path perpendicular to the undulations will yield the best results.

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 or by calling SIKAs Technical Service Department at 800-933-7452. Nothing contained in any SIKAs literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKAs product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKAs product. SIKAs 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. SIKAs SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKAs 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 SIKAs 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.

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