

PRODUCT DATA SHEET

Sikalastic®-720 One Shot Arctic

INTEGRAL TEXTURE, FAST CURING, EXTREMELY DURABLE, ONE STEP, COLD WEATHER POLYURETHANE VEHICULAR AND PEDESTRIAN TRAFFIC COATING SYSTEM

PRODUCT DESCRIPTION

Sikalastic®-720 One Shot Arctic is an integrally texture, fast-curing, aliphatic, elastomeric cold weather polyurethane waterproofing coating intended for vehicular and pedestrian traffic. Applied in a single step down to 15°F, the Sikalastic®-720 One Shot Arctic system replaces the standard traffic coating systems of a base coat and multiple top coats.

USES

Sikalastic®-720 One Shot Arctic 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

CHARACTERISTICS / ADVANTAGES

- Mixed and applied down to 15°F
- Achieves a 45 mil vehicular traffic system in a single coat application
- Achieves a 35 mil pedestrian traffic system in a single coat application
- Integral Texture for superior durability
- Outstanding resistance to abrasion and wear from top to bottom
- Fully Aliphatic system- UV resistance throughout
- Resistant to deicing salts

PRODUCT INFORMATION

Packaging	4.8 gal 3-component (A+B+C) kit; 2.6 gal. A component, 1.5 gal. B component C Component: 8.1 lbs Vehicular grade or Pedestrian grade
Color	Gray
Shelf Life	1 year in original, unopened containers.
Storage Conditions	Store dry at 15-95 °F Condition material to 15-85 °F before using.
Volatile organic compound (VOC) content	See Product Safety Data Sheet

TECHNICAL INFORMATION

Shore Hardness	90 ± 5	(ASTM D-2240), Shore A 75°F (24°C) 50 % R. H
Tensile Strength	2200 psi +/- 50	(ASTM D-412) 75°F (24°C) 50 % R. H
Elongation	211%	(ASTM D-412) 75°F (24°C) 50 % R. H
Tear Strength	312 pli ± 25 pli	Die C, ASTM D-624

APPLICATION INFORMATION

Coverage	33 sf/gal 158 sf/Pail (4.8 gal A+B+C mix)
Pot Life	~40 minutes

SYSTEM INFORMATION

Systems	Sikalastic®-720 One Shot Arctic Vehicular System* 45 DFT Sikalastic®-720 One Shot Arctic Pedestrian System* 35 DFT
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*Sikalastic®-720 One Shot Arctic requires the Sikalastic® -705 Arctic Primer for all applications

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

- 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 15 °F; maximum is 95 °F.
- Substrate must be dry prior to application. Do not apply to a frosted, wet, or damp surface.
- Sikalastic®-720 One Shot Arctic must be applied over Sikalastic® 705 Arctic Primer and within the recoat window of the primer.
- 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

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface must be clean, dry, and sound with an open texture. Surface must be free from frost and standing water/ice. 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. Concrete substrate must be primed with Sikalastic® 705 Arctic Primer and allowed to cure before proceeding with the application of Sikalastic®-720 One Shot Arctic.

Detailing

For cracks less than 1/16" width: Apply a 23 mil detail coat of Sikalastic®-720 One Shot Arctic, 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 Sikalastic®-720 One Shot Arctic, 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 One Shot Arctic, 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.

MIXING

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

Sikalastic®-720 One Shot Arctic Vehicular system uses the Vehicular grade Part C, Sikalastic®-720 One Shot Arctic Pedestrian system uses the Pedestrian grade Part C.

APPLICATION

Sikalastic®-720 One Shot Arctic Vehicular System

After mixing, immediately pour the mixed Sikalastic®-720 One Shot Arctic onto the primed substrate. Leaving the Sikalastic®-720 One Shot Arctic 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 Arctic 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. Sika offers a recommended squeegee; contact your local Sika rep for more information. (Recommended Squeegee: Seymour Midwest's Speed Squeegee HD 3/8" W x 1/4" D (30-45 mil), Black Neoprene Blade, SKU: 47565)

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 a 3/8" nap phenolic resin core roller in **two directions**, one perpendicular to the other. Wet roller with excess material before backrolling; using a dry roller for backrolling will result in improper application thickness. Do not apply pressure with the roller; do not push the material with the roller. If backrolled more than once in each direction the final texture could be inconsistent.

Sikalastic®-720 One Shot Arctic Pedestrian System

After mixing, immediately pour the mixed Sikalastic®-720 One Shot Arctic onto the primed substrate. Leaving the Sikalastic®-720 One Shot Arctic 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 Arctic 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 24 hours before opening to pedestrian traffic

Proper Squeegee: Use a 1/4" V-notched squeegee or trowel to achieve the proper wet film thickness of 38 WFT (35 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. Sika offers a recommended squeegee; contact your local Sika rep for more information. (Recommended Squeegee: Seymour Midwest's Easy Squeegee 1/4" W blade)

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 a 3/8" nap phenolic resin core roller in **two directions**, one perpendicular to the other. Wet roller with excess material before backrolling; using a dry roller for backrolling will result in improper application thickness. Do not apply pressure with the roller, do not push the material with the roller. If backrolled more than once in each direction the final texture could be inconsistent.

CLEANING OF TOOLS

Equipment should be immediately cleaned with an environmentally safe solvent, as permitted under local regulations. Once cured material 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 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.

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

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Product Data Sheet

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