

Sikalastic® 710 Base

Single component, elastomeric, crack-bridging, waterproofing base coat

Description	Sikalastic® 710 is a single component, aromatic, moisture 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.
Where To Use	<ul style="list-style-type: none">■ Multi-story parking garages.■ Parking decks and ramps.■ Foot bridges and walkways.■ Mechanical rooms.■ Stadiums and arena.■ Plaza and rooftop decks.■ Balconies.
Advantages	<ul style="list-style-type: none">■ Excellent crack-bridging properties and flexibility, even at low temperatures.■ Resistant to water and de-icing salts.■ Alkaline resistant.
Coverage	50 ft ² /gal. @ 32 wet mils (23 dry mils).
Packaging	5 gal. pails, 50 gal. (net) drums.
Cure Mechanism	Moisture cure.
Chemical Resistance	Resistant to de-icing salts, and alkaline concrete and cementitious mortars/tile adhesives.

Typical Data (Material and curing conditions at 75°F (24°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in original, unopened container.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°- 85°F (18°- 30°C) before using.
Color	Gray
Viscosity	6500 +/- 3000 cps
Total Volume Solids (ASTM D-2697)	71%
VOCs (ASTM D-2369-81)	240 g/l
Tensile Strength (ASTM D-412)	800 +/- 100 psi
Elongation at Break (ASTM D-412)	500 +/- 50%
Tear Resistance (Die C, ASTM D-624)	170 +/- 25 pli
Hardness (ASTM D-2240)	55 +/- 5 Shore A

The Sika logo consists of the word "Sika" in a bold, italicized, sans-serif font, with a registered trademark symbol (®) to its right. The text is white and is set against a red triangular background that points downwards.

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Construction

How to Use

Surface Preparation	<p>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.</p> <p>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).</p> <p>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® 2c or 1a and detailed and may need embedded fabric reinforcement.</p> <p>Metal - Should be thoroughly cleaned by grinding or blast cleaning.</p>
	<p><u>Priming</u> Refer to separate primer data sheets for more detailed information.</p>
	<p>Concrete - For concrete decks with a maximum moisture content of 4% by weight, apply Sikafloor® FTP with a flat squeegee or roller at approximately 300 ft²/gal. For concrete decks with a maximum moisture content of 5% by weight, apply Sikafloor® 1610 with a flat squeegee or roller at approximately 150 ft²/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikafloor® 1610 with a flat squeegee or roller at approximately 150 ft²/gal. per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided.</p>
	<p>Plywood - Apply Sikafloor® FTP with a flat squeegee or roller at approximately 300 ft²/gal, working primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided.</p>
	<p>Metal - Consult Sika regarding primer recommendations.</p>
	<p><u>Detailing</u> Non-structural cracks up to 1/16" - Apply a detail coat of Sikalastic® 710 at 32 wet mils, 4" wide, centered over the crack. Allow to become tack free before over coating. Cracks and joints over 1/16" up to 1 inch - Rout and seal with Sikaflex® 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic® 710 at 32 wet mils, 4" wide, centered over the crack. Allow to become tack free before over coating. Joints over 1 inch - Should be treated as expansion joints and brought up through the Sikalastic® 710 waterproofing membrane and sealed with Sikaflex® 2c or 1a sealant.</p>
Mixing	<p>Thoroughly mix coating using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained (typically 1 minute). Use care not to allow the entrapment of air into the mixture.</p>
Application	<p>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 16 hours at 70°F and 50% RH or until tack free before top coating. Allow coating to cure for a minimum of 72 hours before installing separate wear course.</p>
Removal	<p>Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.</p>
Limitations	<ul style="list-style-type: none"> ■ 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 Sikafloor® FTP primer, and 6% by weight with Sikafloor® 1610 primer. ■ Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 90°F (32°C). ■ 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. ■ 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, 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.



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- 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.
- Sikalastic® 710 is not UV stable and must be top coated or protected by a separate wearing course.
- Primer coat must be kept clean and recoated within 48 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.

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1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

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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