



Sikalastic® 710/715 Traffic System

Single component, elastomeric, crack-bridging, waterproofing traffic system

Description	<p>Sikalastic 710/715 Traffic System is a single component, aromatic, moisture cured, elastomeric polyurethane coating system designed for use as a waterproofing membrane for pedestrian and vehicular traffic bearing surfaces. System components are:</p> <p>Sikafloor FTP primer (separate data sheet available or consult Sika for other primer options)</p> <p>Sikalastic 710 Base one-component aromatic polyurethane base coat</p> <p>Sikalastic 715 Top one-component aromatic polyurethane top coat (suitable for UV exposure)</p> <p>Sikalastic 735 AL, 736 AL Lo-VOC and 748 PA optional aliphatic top coats (see separate Sikalastic Aliphatic Top Coats data sheet)</p> <p>Sikalastic 700 ACL optional accelerator</p>	
Where to Use	<p>Sikalastic 710/715 Traffic System is designed for use on concrete, cementitious or plywood surfaces exposed to vehicular or pedestrian traffic.</p> <ul style="list-style-type: none"> ■ Multi-story parking garages ■ Parking decks and ramps ■ Foot bridges and walkways ■ Mechanical rooms ■ Stadiums and arenas ■ Plaza and rooftop decks ■ Balconies 	
Advantages	<ul style="list-style-type: none"> ■ Excellent crack-bridging properties and flexibility, even at low temperatures ■ Outstanding resistance to abrasion and wear ■ Impervious to water and deicing salts ■ Range of standard colors and decorative options 	
Packaging	<p>Sikalastic 710 Base and 715 Top</p> <p>Sikalastic 700 ACL</p> <p>Sikafloor FTP</p>	<p>5 gal. pails, 50 gal. (net) drums</p> <p>1 quart cans (9 cans per carton)</p> <p>7 gal. kit - two 1 gal. cans Part "R" and two short-filled pails Part "H" (1.25 gal. each). Kit yields 7 gal. after dilution with 2.5 gal. water (see mixing instructions below)</p>
Colors	<p>Sikalastic 710 Base</p> <p>Sikalastic 715 Top</p>	<p>Gray</p> <p>Gray, Charcoal and Tan</p>

Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)

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 containers.	
Storage Conditions	Store dry at 40-95°F (4-35°C). Condition material to 65-85°F (18-30°C) before using.	

	710 Base	715 Top
Viscosity	6500 ± 3000 cps	1500 ± 500 cps
Total Volume Solids (ASTM D-2697)	71%	72%
VOC Content (ASTM D-2369-81)	240 g/l	243 g/l
Tensile Strength (ASTM D-412)	800 ± 100 psi	3200 ± 300 psi
Elongation at Break (ASTM D-412)	500 ± 50%	500 ± 50%
Tear Resistance (Die C, ASTM D-624)	170 ± 25 pli	350 ± 50 pli
Hardness (ASTM D-2240)	55 ± 5 Shore A	85 ± 5 Shore A
Requirements of ASTM C-957	System passes	System passes
Class A Spread of Flame (ASTM E-108-10a)	System passes	System passes

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. Seams should be sealed with Sikaflex 2c or 1a and detailed and may be imbedded fabric reinforcement.</p> <p>Metal - Should be thoroughly cleaned by grinding or blast cleaning. Consult Sika regarding primer.</p>
Priming	<p>Concrete and Plywood: Apply Sikafloor FTP with a flat squeegee or roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing and puddles are avoided. Refer to separate data sheet for more detailed information, or consult Sika for other primer options.</p> <p>Mixing: Premix both components. Sikafloor FTP, Part "H" is dark olive green in color and may appear black in the container. Sikafloor FTP, Part "R" is light amber in color. Add the 1 gallon of Sikafloor FTP, Part "R" to the 1.25 gallons of Part "H" in the short filled Part "H" pail. Mix thoroughly with a mechanical mixer (Jiffy) for 3 minutes. This mixture will appear as a light olive green color. Slowly add 1.25 gallons of potable water to the mixture under agitation. Mix for an additional 2 minutes until the mixture is fully dispersed. Fully dispersed material will appear as light green in color. Prevent from freezing and allow primer to cure a minimum of 3-4 hours at 75°F and 50% RH or until tack free before applying base coat. Recoat window is generally 48 hours; contact Sika if exceeded.</p>
Detailing	<p>Non-structural cracks up to 1/16 inch - Apply a detail coat of Sikalastic 710 Base at 32 mils wet, 4" wide, centered over the crack. Allow to become tack free before overcoating.</p> <p>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 Base at 32 mils wet, 4" wide, centered over crack. Allow to become tack free before overcoating.</p> <p>Joints over 1 inch - Should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex 2c or 1a sealant.</p>
Base Coat	Thoroughly mix Sikalastic 710 Base using a mechanical mixer (Jiffy) at slow speeds until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see 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 control joints. Allow coating to cure a minimum of 16 hours at 70°F and 50% RH or until tack free before top coating.
Top Coats	Thoroughly mix Sikalastic 715 Top using a mechanical mixer (Jiffy) at slow speeds until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a flat or notched squeegee and backroll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required (see System Guide). Allow coating to cure a minimum of 16 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 72 hours before opening to vehicular traffic.
Aggregate	Use clean, rounded, oven dried quartz sand with a minimum size gradation of 16-30 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means an even, light broadcast short of to refusal. Any loose aggregate must be removed prior to recoating. Backroll aggregate where indicated.
Accelerator	Sikalastic 700 ACL may be added to Sikalastic 710 Base or 715 Top in order to speed cure time particularly in cold weather conditions. Mix thoroughly prior to application. Add a maximum of 1 quart to 5 gallons (or 1:20 ratio) and only to material that will applied within 2-3 hours.

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular Traffic
Primer	Sikafloor FTP - 300 sf/gal. Consult Sika for other primer options.		
710 Detail Coat	32 mils wet over properly treated cracks and joints		
710 Base Coat	32 mils wet (23 mils dry) - 50 sf/gal.		
715 Top Coat I	14 mils wet (10 mils dry) - 115 sf/gal.	11 mils wet (8 mils dry) - 145 sf/gal.	11 mils wet (8 mils dry) - 145 sf/gal.
Aggregate	5-10 lbs/100 sf - seeded/backrolled	10-15 lbs/100 sf - seeded	10-15 lbs/100 sf - seeded
715 Top Coat II		16 mils wet (12 mils dry) - 100 sf/gal.	16 mils wet (12 mils dry) - 100 sf/gal.
Aggregate			10-15 lbs/100 sf - seeded
715 Top Coat III			16 mils wet (12 mils dry) - 100 sf/gal.
Total Thickness	33 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)
See Sikalastic Aliphatic Top Coats data sheet for top coat substitutions and decorative quartz and DecoFlake® systems.			

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 substrate: 4% by weight.
- 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.
- Use properly graded, oven dried aggregates only.
- 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.
- 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.
- Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
- On grade, unvented metal pan, split/sandwich slab and buried membrane conditions as well as light-weight concrete and asphalt or where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Do not subject to continuous immersion.
- Base coat is not UV stable and must be top coated.
- Top coat will chalk, fade, or discolor over time when exposed to UV and under certain artificial lighting conditions. Aliphatic top coats with superior color and gloss retention are available.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

WARNING

Sikalastic 710 Base

WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER: Contains Polyurethane Prepolymer (Mixture), Solvent Naphtha Petroleum, Medium Aliphatic (CAS: 64742-88-7), Solvent Naphtha Petroleum, Light Aromatic (CAS: 64742-95-6) and Toluene Diisocyanate (CAS: 26471-62-5). **Keep away from heat, sparks, electrical equipment, open flame, and other sources of ignition. DO NOT SMOKE.** Use only in well ventilated areas. Causes eye/skin/respiratory irritation. May cause skin and/or respiratory sensitization after prolonged contact. Harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. **Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.** **WARNING: This product contains a chemical known to the State of California to cause cancer.**

Sikalastic 715 Top

WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER: Contains Polyurethane Prepolymer (Mixture), Solvent Naphtha Petroleum, Light Aromatic (CAS: 64742-95-6) and Toluene Diisocyanate (CAS: 26471-62-5). **Keep away from heat, sparks, electrical equipment, and open flame. DO NOT SMOKE.** Use only in well ventilated areas. Causes eye/skin/respiratory irritation. May cause skin and/or respiratory sensitization after prolonged contact. Harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. **Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.** **WARNING: This product contains a chemical known to the State of California to cause cancer.**

Construction

Handling & Storage	Avoid direct contact with eyes and skin. Must wear chemical resistant gloves/goggles/clothing. Avoid breathing vapors. Use with adequate general and local ventilation. In absence of adequate ventilation, use properly fitted NIOSH approved respirator. Wash thoroughly after handling product. Store in a cool, dry, well ventilated area. Keep containers tightly closed.
First Aid	WARNING: COMBUSTIBLE. Keep away from heat, sparks, electrical equipment, and open flame. DO NOT SMOKE. Use only in well ventilated areas. Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Clean Up	Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations.
Maintenance/Repair	Clean with non-sudzing detergent and water and inspect regularly for mechanical damage. Snow removal equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to well adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY

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