


**Product Data Sheet**  
Edition 5.25.2010  
Identification no.  
Sikalastic 710/715 Traffic System

A. R. Chambers Supply  
111 Thirty-Fifth Street  
Pittsburgh, PA 15201  
412-681-8955

 <b>SEALANT-WATERPROOFING &amp; RESTORATION INSTITUTE</b>	
<b>Issued to: Sika Corporation</b> <b>Product: Sikalastic 710/715 Traffic System</b>	
<b>ASTM D 412:</b> Tensile Strength of Top Coat Sikalastic 715 Top Tensile Strength: 4,840 psi; Elongation: 725%	Pass ✓
<b>ASTM D 4541:</b> Adhesion of Base Coat Sikalastic 710 Base Pull-off Adhesion: 375 psi	Pass ✓
<b>ASTM D 4060:</b> Abrasion Resistance of Top Coat Sikalastic 715 top Abrasion Resistance: 2 mgms loss – mgms loss/1,000 cycles	Pass ✓
Validation Date: 3/19/10-3/18/15 No. 310—SL710715 <span style="float: right;">Copyright © 2010</span>	
<b>DECK COATING VALIDATION</b> www.swrionline.org	

# Sikalastic® 710/715 Traffic System

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

<b>Description</b>	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:  Sikafloor FTP primer (separate data sheet available or consult Sika for other primer options) Sikalastic 710 Base one-component aromatic polyurethane base coat Sikalastic 715 Top one-component aromatic polyurethane top coat (suitable for UV exposure) Sikalastic 735 AL, 736 AL Lo-VOC and 748 PA optional aliphatic top coats (see separate Sikalastic Aliphatic Top Coats data sheet) Sikalastic 700 ACL optional accelerator	
<b>Where to Use</b>	Sikalastic 710/715 Traffic System is designed for use on concrete, cementitious or plywood surfaces exposed to vehicular or pedestrian traffic. <ul style="list-style-type: none"> <li>■ Multi-story parking garages</li> <li>■ Parking decks and ramps</li> <li>■ Foot bridges and walkways</li> <li>■ Mechanical rooms</li> <li>■ Stadiums and arenas</li> <li>■ Plaza and rooftop decks</li> <li>■ Balconies</li> </ul>	
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Excellent crack-bridging properties and flexibility, even at low temperatures</li> <li>■ Outstanding resistance to abrasion and wear</li> <li>■ Impervious to water and deicing salts</li> <li>■ Range of standard colors and decorative options</li> </ul>	
<b>Packaging</b>	Sikalastic 710 Base and 715 Top  Sikalastic 700 ACL  Sikafloor FTP	5 gal. pails, 50 gal. (net) drums  1 quart cans (9 cans per carton)  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)
<b>Colors</b>	Sikalastic 710 Base  Sikalastic 715 Top	Gray  Gray, Charcoal and Tan

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

<b>Shelf Life</b>	1 year in original, unopened containers.	
<b>Storage Conditions</b>	Store dry at 40-95°F (4-35°C). Condition material to 65-85°F (18-30°C) before using.	
	<b>710 Base</b>	<b>715 Top</b>
<b>Viscosity</b>	6500 ± 3000 cps	1500 ± 500 cps
<b>Total Volume Solids (ASTM D-2697)</b>	71%	72%
<b>VOC Content (ASTM D-2369-81)</b>	240 g/l	243 g/l
<b>Tensile Strength (ASTM D-412)</b>	800 ± 100 psi	3200 ± 300 psi
<b>Elongation at Break (ASTM D-412)</b>	500 ± 50%	500 ± 50%
<b>Tear Resistance (Die C, ASTM D-624)</b>	170 ± 25 pli	350 ± 50 pli
<b>Hardness (ASTM D-2240)</b>	55 ± 5 Shore A	85 ± 5 Shore A
<b>Requirements of ASTM C-957</b>	System passes	System passes



## How to Use

### Surface 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. should be dressed off to achieve a level surface prior to the application.

**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).

**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 need imbedded fabric reinforcement.

**Metal** - Should be thoroughly cleaned by grinding or blast cleaning. Consult Sika regarding primer.

### Priming

**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.

**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. Allow primer to cure a minimum of 3-4 hours at 70°F and 50% RH or until tack free before applying base coat.

### Detailing

**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.

**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.

**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.

### 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 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 be 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.**

## 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.

# Construction

## 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

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at [www.sikacorp.com](http://www.sikacorp.com) or by calling 800-933-7452.

**Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available online at [www.sikaconstruction.com](http://www.sikaconstruction.com) or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.**

**LIMITED WARRANTY:** 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 Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALLNOTBELIABLEUNDERANYLEGALTHEORYFORSPECIALORCONSEQUENTIALDAMAGES.SIKASHALLNOTBERESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Visit our website at [www.sikaconstruction.com](http://www.sikaconstruction.com)

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

