

# PRODUCT DATA SHEET

## Sikalastic<sup>®</sup>-745 AL

TWO-COMPONENT, ALIPHATIC, FAST-CURING, SOLVENT FREE, TRAFFIC BEARING WEAR AND TOP COAT

### PRODUCT DESCRIPTION

Sikalastic<sup>®</sup>-745 AL is a two-component, aliphatic, chemically cured, elastomeric polyurethane coating intended for use as the traffic bearing wear and top coat over polyurethane waterproofing membrane for pedestrian and vehicular traffic bearing applications, and as a protective top coat over polyurethane waterproofing membrane under a separate wearing course such as concrete or asphalt pavement, and tile in a setting bed.

### USES

Sikalastic<sup>®</sup>-745 AL may only be used by experienced professionals.

- Multi-story parking garages ,Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arena
- Plaza and rooftop decks , Balconies

### CHARACTERISTICS / ADVANTAGES

- Low odor and fast turnaround
- Excellent crack-bridging properties and flexibility, even at low temperatures
- Resistant to water and de-icing salts
- Alkaline resistant
- Range of standard colors
- UV stable

### PRODUCT INFORMATION

<b>Packaging</b>	17.6 gal. kit - four 5 gal. pails (net 4 gal. each) Part A and four 1 gal. cans (net 0.4 gal. each) Part B	
<b>Appearance / Color</b>	Gray, Charcoal and Tan; custom colors available (min. 150gal.)	
<b>Shelf Life</b>	12 months 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>Solid content by volume</b>	100 %	(ASTM D-2697)
<b>Volatile organic compound (VOC) content</b>	73.6 g/L	(ASTM D-2369-81)

## TECHNICAL INFORMATION

Shore A Hardness	85 +/- 5	(ASTM D-2240) 75 °F (24 °C) 50 % R.H.
Tensile Strength	3200 +/- 300 psi	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Elongation at Break	450 +/- 45 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Tear Strength	300 +/- 30 pli	(Die C, ASTM D-624) 75 °F (24 °C) 50 % R.H.
Chemical Resistance	Resistant to de-icing salts, and alkaline concrete and cementitious mortars/tile adhesives.	

## APPLICATION INFORMATION

Coverage	133 ft <sup>2</sup> /gal. at 12 wet mils (12 dry mils) 115 ft <sup>2</sup> /gal. at 14 wet mils (14 dry mils) 100 ft <sup>2</sup> /gal. at 16 wet mils (16 dry mils) 90 ft <sup>2</sup> /gal. at 18 wet mils (18 dry mils) Coverage rates provided are intended to achieve required wet film thickness under optimal conditions. Additional material may be required depending on substrate surface roughness and porosity, material and substrate temperatures, and other site-dependent factors. This will result in a lower coverage rate.
Pot Life	20–30 minutes

## APPLICATION INSTRUCTIONS

### 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.

**Sikalastic® 720 Waterproofing Base Coat** - Coating should be cured and tack free.

**Existing Coatings** - Should be cleaned and mechanically abraded to provide a contaminant free, open textured surface. Solvent wipe as allowed by state and local regulations.

### MIXING

Premix Part A and Part B components using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour part B into Part A slowly and while mixing scrape the side of the container, Mix the com-

bined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

### APPLICATION

Apply at the recommended coverage rate (see appropriate System Guide) using a notched squeegee or trowel, 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 appropriate System Guide). Allow coating to cure a minimum of 3–4 hours at 70 °F and 50 % R.H. or until tack free between coats. Allow coating to cure for a minimum of 36 hours before opening to vehicular traffic or installing separate wear course.

**Aggregate:** Use clean, rounded or semi-angular oven dried quartz sand with a 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 refusal. A full broadcast of aggregate means a heavy application to refusal. Any loose aggregate must be removed prior to re-

coating. Backroll aggregate where indicated.

### Removal

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

## 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 temperatures.
- Maximum moisture content of substrate: 4 % by weight with Sikalastic® FTP Primer or Sikalastic® Primer, and 6 % by weight with Sikalastic® MT Primer or Sikalastic® FTP LoVOC primer.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 90 °F (32 °C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- 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 Sika 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 to traffic or installation of separate wearing course 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, 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.

- 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.
- Base coat must be kept clean and recoated within 24 hours for two-component base coat, and 72 hours for single component base coat. 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.

## 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.

## LOCAL RESTRICTIONS

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 Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.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 instructions for each Sika product for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

## ECOLOGY, HEALTH AND SAFETY

Keep container tightly closed. Keep out of reach of children. Not for internal consumption. For industrial use only. For professional use only. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL NOTES

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 Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.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 Product Data Sheet, product label and Safety Data Sheet prior to product use. 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 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. Sika shall not be liable under any legal theory for special or consequential damages. Sika 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 Sika products are subject to Sika's terms and conditions of sale available at <http://usa.sika.com/> or by calling 201-933-8800.

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Product Data Sheet  
Sikalastic®-745 AL  
July 2018, Version 01.01  
020812040020000030

Sikalastic-745AL-en-US-(07-2018)-1-1.pdf

