

PRODUCT DATA SHEET

Sikalastic®-735 AL

SINGLE COMPONENT, ALIPHATIC, HIGH-PERFORMANCE TRAFFIC- BEARING TOP COAT

PRODUCT DESCRIPTION

Sikalastic®-735 AL is a single component, aliphatic, moisture 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. Sikalastic®-735 AL can also be used as a high-performance decorative aggregate or vinyl flake embedment coat. Sikalastic®-735 AL provides superior UV resistance, color stability and cleanability, as well as more decorative options. Optional Sikalastic® 700 ACL accelerator can be used to speed cure time (see separate Data Sheet).

USES

Sikalastic®-735 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

- Superior color and gloss retention and cleanability
- Outstanding resistance to abrasion and wear
- Resistant to water and de-icing salts
- Range of standard colors, with custom colors available
- Field-tintable tint base color option available with Sika Universal Color Paks

PRODUCT INFORMATION

Packaging	5 gal. pails. (4.65 gal. pails - tint base)
Shelf Life	12 months 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.
Appearance / Color	Gray, Charcoal and Tan; custom colors and neutral tint base available

Solid content by volume	74 %	(ASTM D-2697)
Viscosity	2500 +/- 700 cps	
Volatile organic compound (VOC) content	See Product Safety Data Sheet	

TECHNICAL INFORMATION

Shore A Hardness	90 +/- 5	(ASTM D-2240) 75 °F (24 °C) 50 % R.H.
Tensile Strength	4200 psi +/- 300 psi	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Elongation at Break	300 % +/- 50 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Tear Strength	400 +/- 50 pli	(Die C, ASTM D-624) 75 °F (24 °C) 50 % R.H.
Chemical Resistance	Resistant to de-icing salts.	

APPLICATION INFORMATION

Coverage	115 ft ² /gal. at 14 wet mils (10 dry mils) 100 ft ² /gal. at 16 wet mils (12 dry mils) 85 ft ² /gal. at 18 wet mils (14 dry mils) 74 ft ² /gal. at 20 wet mils (16 dry mils)
	<small>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.</small>

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

- 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.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 95 °F (35 °C).
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Use properly graded, oven dried aggregates only.
- 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.
- 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.
- Opening to traffic or installation of separate wear 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, 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.
- 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. Ponding water up to 72 hours is not considered as continuous immersion.
- Base coat must be kept clean and recoated within 24 hours for two-component base coat, and 48 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.
- Cracks or ruptures which develop in the structure after the waterproofing traffic system was installed will not be bridged by the waterproofing traffic system and need to be repaired according to the recommended standard crack treatment details per this PDS.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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® Base Coats and Top Coats - 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. Use Sikalastic Recoat Primer (see separate PDS).

MIXING

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.

Field Tintable Base – Add 6-9 Sika Universal Color Paks to coating. Thoroughly mix coating using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained with no streaks (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. The use of 6 color packs per tint base unit provides 5 % pigment by volume, and is the standard recommended tint level. Final tint base color should be confirmed via mock-up prior to application.

APPLICATION

Apply at the recommended coverage rate 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 16 hours at 70 °F and 50 % R.H. or until tack free between coats. Allow coating to cure for a minimum of 72 hours before opening to vehicular or pedestrian traffic.

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. Alternatively, decorative ceramic-coated colored quartz can also be used for pedestrian traffic applications and 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 recoating.

Decorative Flakes: Use clean and dry colored vinyl flakes with a minimum size gradation of 1/8" for pedestrian traffic applications. Seeding of flakes means an even, light broadcast short of refusal. A full broadcast of flakes means a heavy application to refusal. Any loose flakes must be removed prior to recoating.

Accelerator: Sikalastic® 700 ACL may be added to Sikalastic®-735 AL 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.

Removal

Remove liquid coating immediately with dry cloth. Once cured, coating 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.

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Product Data Sheet

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