

Sikalastic® 735 AL

Single component, aliphatic, high-performance traffic-bearing top coat

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).
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">■ 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.
Coverage	145 ft ² /gal. @ 11 wet mils (8 dry mils); 115 ft ² /gal. @ 14 wet mils (10 dry mils); 100 ft ² /gal. @16 wet mils (12 dry mils).
Packaging	5 gal. pails.
Cure Mechanism	Moisture cure.
Chemical Resistance	Resistant to de-icing salts.

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 containers.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-85°F (18°-30°C) before using.
Color	Gray, Charcoal and Tan; custom colors available.
Viscosity	2500 +/- 700 cps
Total Volume Solids (ASTM D-2697)	74%
VOCs (ASTM D-2369-81)	225 g/l
Tensile Strength (ASTM D-412)	4200 +/- 300 psi
Elongation at Break (ASTM D-412)	230 +/- 50%
Tear Resistance (Die C, ASTM D-624)	400 +/- 50 pli
Hardness (ASTM D-2240)	90 +/- 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 logo is set against a red triangular background that points downwards.

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Construction

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.

Sikalastic® 710 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

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.

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 16 hours at 70°F and 50% RH 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 or 12-20 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. Backroll aggregate where indicated.

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.

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 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.
- 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, 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.
- Sikalastic® 715 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.
- 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.



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