

PRODUCT DATA SHEET

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TRAFFIC COATINGS

Sikalastic®-735 AL / -736 AL Lo-VOC

ONE-COMPONENT, ALIPHATIC, HIGH PERFORMANCE POLYURETHANE-BASED TOP COATS
WATERPROOFING MEMBRANES

Description	Sikalastic®-735 AL and Sikalastic®-736 AL Lo-VOC are coatings formulated to be used as topcoats for the Sikalastic®-710 NP in exposed or uncovered areas (See Sikalastic®-710 NP Product Data Sheet). They are intended to be used as wear coats and as a decorative finish option for pedestrian and light vehicular trafficked surfaces.		
Where to Use	▪ Foot bridges and walkways ▪ Balconies ▪ Parking decks and ramps ▪ Multi-storey parking garages		
Advantages	▪ Single-part materials, reducing mixing needs and increasing productivity. ▪ Resistance to abrasion, wear and ultra-violet light providing a longer service life. ▪ Impervious to water and to common chemicals providing protection against deicing salts and incidental vehicle fluids. ▪ Superior colour and gloss retention and cleanability for maintaining an attractive look. ▪ A range of standard colours as well as custom and decorative options to serve all your finishing needs. ▪ Optional accelerator (Sikalastic®-700 ACL) for increased productivity is available for fast-track or cold weather works. ▪ Compliant with SWRI Deck Coatings standard.		
Technical Data			
Packaging	Sikalastic®-735 AL / 736 AL Lo-VOC	18.9 L (5 US gal.) pail	
	Sikalastic®-700 ACL	0.95 L (1 US qt) can, 9/case	
Colour	Sikalastic®-710 NP	Grey	
	Sikalastic®-735 AL / 736 AL Lo-VOC	Grey, Charcoal, Limestone, Tan <i>Custom colours of all are available</i>	
Yield	Sikalastic®-710 NP	1.25 m²/L (50 ft²/US gal.) at 32 mils w.f.t.	
	Sikalastic®-735 AL / 736 AL Lo-VOC	2 to 3.6 m²/L (80 to 145 ft²/US gal.) at 11 to 20 mils w.f.t.	
Shelf Life	12 months in original, unopened containers. Store dry between 4 to 35 °C (40 to 95 °F). Condition material between 18 to 30 °C (65 to 85 °F) prior to installation.		
Properties at 24 °C (75 °F) and 50 % R.H.			
	735 AL	736 AL Lo-VOC	
Viscosity	2500 ± 700 cps	3500 ± 700 cps	
Volume Solids ASTM D2697	74%	83%	
Tensile Strength ASTM D412	~28 MPa (4200 ± 300 psi)	~27 MPa (4000 ± 300 psi)	
Elongation at Break ASTM D412	230 ± 50 %	250 ± 50 %	
Tear Resistance Die C, ASTM D624	~70 kN/mm (400 ± 50 pli)	~70 kN/mm (400 ± 50 pli)	
Hardness ASTM D2240	90 ± 5 Shore A	90 ± 5 Shore A	
VOC Content	Sikalastic®-735 AL: 225 g/L Sikalastic®-736 AL Lo-VOC: 99 g/L		
Chemical Resistance	Contact Sika Canada		
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>			

HOW TO USE

Surface Preparation	Sikalastic®-735 AL and Sikalastic®-736 AL Lo-VOC topcoats do not require specific surface preparations. Follow product data sheets recommendations of Sikalastic®-710 NP or Sikalastic® Recoat Primer on recovering times. If recovering times can not be followed as recommended, contact Sika Canada for more informations.
Mixing	Mix material to ensure uniform colour and consistency, typically one (1) to two (2) minutes, using a low-speed drill (300 to 450 rpm) fitted with an <i>Exomixer®</i> or <i>Jiffy</i> type paddle suited to the volume of the mixing container. Keep the mixing paddle immersed in the material to avoid introducing or entrapping air while mixing
Application	Apply by notched squeegee or trowel at the rate of 2 - 3.6 m²/L (80 - 145 ft²/US gal.) to achieve a wet film thickness of 11 to 20 mils (w.f.t.) per coat. Backroll using a phenolic resin cored roller. Ensure complete and uniform coverage at the recommended wet film thicknesses across all surfaces. Coverage will vary depending on the profile of the substrate and the system utilised. Immediately following application of the course, apply the required standard of aggregate. Use a “seeding” technique to broadcast the aggregate into the freshly applied and wet coat, ensuring the correct consumption rate is adhered to and that an even slip reduction profile is created.

Where a second wear course coat is required, allow the first to cure for a minimum of 16 hours at 21 °C (70 °F) and 50 % R.H. or until tack-free before overcoating.

Allow a curing time of at least 72 hours under the same curing conditions stated above before opening the treated deck to vehicular traffic.

Aggregate

The quality and condition of the aggregate used in the system are important factors in the durability and slip resistance of the finished membrane.

Use only clean, rounded, oven-dried quartz sand with a gradation of 20 - 40 mesh for pedestrian traffic and a minimum gradation of 16 - 30 mesh for vehicular traffic.

The minimum hardness of the aggregate must be 6.5, as per the Moh's scale.

Use aggregate supplied in pre-packaged bags for best results, and it must be free of metallic or other impurities.

The "seeding" of aggregate means an even, light broadcast short of or to refusal. Any loose or excess aggregate must be removed prior to recoating, preferably by vacuum to ensure a sound surface is achieved before subsequent coating. Back-roll aggregate where indicated.

Accelerator

Sikalastic®-700 ACL may be added to Sikalastic®-735 AL or -736 AL Lo-VOC in order to speed up cure time, particularly in cold conditions. Add a maximum of 0.95 L (1 US qt) of Sikalastic®-700 ACL to 18.9 L (5 US gal.) (or 1:20 ratio) of Sikalastic®-735 AL or -736 AL Lo-VOC and only to material that can be applied within 2 - 3 hours depending on site and conditioning temperature.

Mix the combined components for at least three (3) minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an *Exomixer*® or *Jiffy* mixing paddle suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, the material should be uniform in colour and consistency.

Clean Up	Wash soiled hands and skin thoroughly in hot, soapy water or use Sika® Hand Cleaner. Uncured material can be removed with Sika® Urethane Thinner and Cleaner. Cured material can only be removed mechanically.
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Maintenance/Repair	Consult the Sikalastic® Traffic Coating Maintenance Guide or contact Sika Canada for more information.
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Limitations	▪ Minimum/maximum ambient and substrate temperature during application and cure: 4 °C/32 °C (40 °F/90 °F). 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. ▪ Maximum relative humidity during application and cure: 95 % ▪ Substrate temperature must be at least 3 °C (5.5 °F) above measured dew point temperature. ▪ Moisture content of the substrate must be ≤ 4 % by weight when installing the system. In the case of higher moisture content, please refer to Sikalastic®-710 NP product data sheet for selecting the recommended primer depending on measured site conditions. ▪ Do not apply to a porous or damp surface where moisture vapour transmission will occur during application and cure. ▪ Minimum age of concrete must be 21 - 28 days depending on curing and drying conditions and must have reached a minimum of 20 MPa (2900 psi) in compressive strength. ▪ Substrate must be dry prior to application. Do not apply to frosted, wet or damp surfaces. Do not proceed if rain is imminent within 8 - 12 hours of application. Allow sufficient time for substrate to dry after rain or inclement weather to avoid potential for bonding problems. ▪ Repairs required to achieve a level surface must be carried out prior to application (consult Sika Canada for material recommendations). Surface irregularities may reflect through the cured system. ▪ When applying over existing coatings, compatibility and adhesion testing is recommended. ▪ Do not store materials outdoors or exposed to sunlight for prolonged periods. ▪ Do not hand-mix or thin with solvents: mechanical mix only and only dilute where instructed within Product Data Sheet. ▪ Use properly graded, oven-dried and metal/impurity-free aggregates only. ▪ 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 may stain the membrane: fluid spills should be removed promptly, as the coating, in some cases, can be damaged from prolonged exposure. ▪ Not suitable for on-grade, unvented metal pan, split/sandwich slab and buried membrane conditions as well as lightweight concrete and asphalt. Also not suitable where chained or studded tires may be used. ▪ Do not apply onto substrates subject to hydrostatic pressure or subject to continuous immersion. ▪ As with all coatings, jobsite trials are highly recommended to verify substrate conditions and application methods, establish acceptable workmanship, identify consumption, coverage and the desired skid resistance and ensure that the standard of finish and aesthetics are agreed.
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**Health and Safety
Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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