

PRODUCT DATA SHEET

Sikalastic®-710 Base Lo-VOC

SINGLE COMPONENT, ELASTOMERIC, CRACK-BRIDGING, LOW-VOC WATERPROOFING BASE COAT

PRODUCT DESCRIPTION

Sikalastic®-710 Base Lo-VOC is a single component, aromatic, moisture cured, low-VOC elastomeric polyurethane coating intended for use as the waterproofing base coat under polyurethane or epoxy wearing surfaces for pedestrian and vehicular applications, and as the waterproofing base coat with a protective polyurethane top coat under a separate wearing course such as concrete, and tile in a setting bed. Optional Sikalastic® 700 ACL can be used to speed cure time.

USES

Sikalastic®-710 Base Lo-VOC may only be used by experienced professionals.

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

CHARACTERISTICS / ADVANTAGES

- Low VOC - California Compliant
- Fast turnaround with optional Accelerator
- Excellent crack-bridging properties and flexibility, even at low temperatures
- Resistant to water and deicing salts
- Alkaline resistant
- Low Odor

PRODUCT INFORMATION

Packaging	4.75 gal. in 5 gal. pails, 50 gal. (net) drums
Shelf Life	1 year from date of manufacture 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
Solid content by volume	87.7 % (ASTM D-2697)

Viscosity	6500 ± 2000 cps
Volatile organic compound (VOC) content	See Product Safety Data Sheet

TECHNICAL INFORMATION

Shore A Hardness	55 ± 5	(ASTM D-2240) 75 °F (24 °C) 50 % R.H.
Tensile Strength	500 ± 100 psi	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Elongation at Break	300 ± 25 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Tear Strength	100 ± 20 pli	(Die C, ASTM D-624) 75 °F (24 °C) 50 % R.H.
Chemical Resistance	Resistant to deicing salts, and alkaline concrete and cementitious mortars/tile adhesives	

APPLICATION INFORMATION

Coverage	<p>100 sf/gal. at 16 wet mils (14 DFT) 61 sf/gal. at 26 wet mils (23 DFT)</p> <p>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.</p>
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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 temperature.
- Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CM Expert type concrete moisture meter: 4 % for exterior exposed decks with one application of Sikalastic® Primer or Sikalastic® FTP Primer; 5 % for exterior and interior decks with one application of Sikalastic® FTP Lo-VOC Primer or Sikalastic® MT Primer ; 6 % for exterior and interior decks with two applications of Sikalastic® FTP Lo-VOC Primer or Sikalastic® MT Primer (see separate Primer product data sheets).
- 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 directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not thin with solvents.
- 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.
- 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.
- 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/Product Engineering.
- Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to continuous immersion or ponding water.
- Sikalastic®-710 Base Lo-VOC is not UV stable and must be top coated or protected by a separate wearing course.
- Sikalastic®-710 Base Lo-VOC coat must be kept clean and recoated within 48 hours. 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 has been 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.

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. Joints should be sealed with Sikaflex® sealant and detailed and may need embedded fabric reinforcement. Preferred primer is Sikadur®- 22 Lo-Mod FS, offers the best substrate for the ensuing Sikalastic® system on Plywood.

Metal - Metal must be in sound condition. The surface should be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter. Be aware of dew point and check it before every application on metal surface.

- Ferrous Metals: Must be prepared to SSPC-SP6/NACE 3. For areas where SSPC-SP6/NACE 3 is prohibited or not feasible, substrate can be thoroughly cleaned by grinding or other power tools per SSPC-SP11.
- Non-Ferrous Metals: Prepare to a bright metal surface. Wire brushing can be used for soft metal such as copper or lead.
- Galvanized Steel: White rust must be removed from galvanized steel, with care taken not to damage or remove the galvanizing.
- Stainless Steel: Must be mechanically abraded or ground to create an appropriate anchor profile.

Priming

Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter.

Sikalastic® Primer – For concrete decks with a maximum moisture content of 4 % by weight, apply Sikalastic® Primer with a flat squeegee or phenolic resin core roller at approximately 250 - 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

Sikadur®-22 Lo-Mod FS- For concrete with a maximum moisture content of 4 % by weight, plywood decks, and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod FS with a flat squeegee or roller at approximately 10 mils at 160 sf/gal. Apply evenly without puddling. Allow primer to cure until tack-free, typically 2-4 hours (at 75°F (24°C) 50 % R. H). Sikadur®-22 Lo-Mod FS should be overcoated within 36 hours after tack-free. Refer to a separate product data sheet for additional information.

Sikalastic® FTP Primer – For concrete decks with a maximum moisture content of 4 % by weight, and for weathered plywood decks, apply Sikalastic® FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

Sikalastic® PF Lo-VOC Primer - For concrete and plywood decks with a porous or rough surface, and for metal flanges and penetrations, use Sikalastic® PF Lo-VOC Primer. For exterior exposed concrete decks with a maximum moisture content of 4 % by weight, interior protected concrete decks with a maximum moisture content of 5 % by weight, and plywood decks, apply Sikalastic® PF Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately 200 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5 % by weight, two applications of Sikalastic® PF Lo-VOC Primer are required. Refer to separate primer data sheet for additional information.

Sikalastic® FTP LoVOC Primer - For concrete with a maximum moisture content of 5 % by weight, and for metal flanges and penetrations, apply Sikalastic® FTP LoVOC Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic® FTP LoVOC Primer with a flat squeegee or phenolic resin roller at approximately 175 - 220 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

Sikalastic® 100 VB - For concrete with a maximum moisture content of 5 % by weight, apply Sikalastic® 100 VB with a flat squeegee or roller at approximately 160 sf/gal. For concrete decks with a maximum moisture content of 6% by weight or applications, apply two applications of Sikalastic® 100VB with a flat squeegee or phenolic resin roller at approximately 160 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing and puddles are avoided. For applications as a moisture barrier and additional information refer to separate primer data sheet.

Sikalastic® Recoat Primer – For existing polyurethane coatings, incidental exposed concrete deck areas, and as an interlaminar primer, apply Sikalastic® Recoat Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work will into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® Recoat Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

Sikalastic® EP Primer/Sealer - For Wood (timber, plywood), Metal (aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc), and for existing asphaltic gravel roofs prior to Flood Coat application. Apply by brush or phenolic resin core roller at the recommended rate, 100-250 sf/gal depending on the substrate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling. Refer to separate primer data sheet for additional information

Sikadur®-22 Lo-Mod LT- For cold weather applications on concrete with a maximum moisture content of 4 % by weight and existing polyurethane coatings, apply a single

coat application of Sikadur®-22 Lo-Mod LT with a flat squeegee or roller at approximately 160 sf/gal. Apply evenly without puddling. Allow primer to cure until tack-free, typically 2-4 hours (at 50°F (10°C) 50 % R.H). Sikadur®-22 Lo-Mod LT should be overcoated within 36 hours after tack-free. Refer to a separate product data sheet for additional information

Detailing

For cracks less than 1/16" width: Apply a 23 mil detail coat of Sikalastic®-710 Base Lo-VOC, extending 2" on either side and centered over the crack.

For cracks 1/16" width or greater and less than 1" width: Must be routed to at least ¼" by ¼", and sealed with an appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 23 mil detail coat of Sikalastic®-710 Base Lo-VOC, extending 2" on either side and centered over the crack. Non-moving cracks can be filled with compatible rigid repair materials.

NOTE: Cracks may indicate a structural issue and should be addressed by a structural engineer or appropriate design professional.

For joints 1/16" or greater and up to 1" width: Joints should be sealed with the appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 23 mil detail coat of Sikalastic®-710 Base Lo-VOC, extending 2" on either side and centered over the crack.

For joints greater than 1" width: Should be treated as expansion joints and brought up through the system and/or use Emseal Expansion Joint. For additional questions please contact Sika Technical Services.

Fabric Reinforcement: An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

Panelized Joints: Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex® sealant. For additional questions please contact Sika Technical Services.

MIXING

Thoroughly mix Sikalastic®-710 Base Lo-VOC using a low speed (400–600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained (typically 1 minute). Add Sikalastic-700 ACL (if required) maximum of 1 qt. per 4.75 gal. pail into premixed coating and continue mixing until homogenous mixture and 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 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 joints. Allow coating to cure a minimum of 16 hours at 70 °F and 50 % RH or until tack free before top coating. Accelerated Sikalastic®-710 Base Lo-VOC will cure in 6-8 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

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