BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-325 Lo-VOC

MULTI-USE ONE COMPONENT REINFORCED LIQUID APPLIED WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikalastic®-325 Lo-VOC is a cold applied, highly elastic, aliphatic, single component, alkali resistant, moisture triggered polyurethane resin with reinforcement designed for use as a balcony waterproofing coating or below-grade waterproofing membrane.

USES

Sikalastic®-325 Lo-VOC may only be used by experienced professionals.

- Typical applications include:
  - Balconies
  - Vegetated Systems
  - Planters
  - Split-Slab waterproofing
  - Applications with cementitous overlays and tile mortar

CHARACTERISTICS / ADVANTAGES

- Balcony traffic capable with broadcasted topcoat
- Single component - no mixing and ready to use
- Alkaline resistant - suitable for under tile applications
- Fully reinforced with highly conformable Sika® Reemat Premium
- Moisture triggered chemistry that is rapidly weatherproof after application
- Low VOC formula - low odor
- Highly elastic and crack bridging
- Seamless and fully adhered
- Vapor permeable
- UV resistant and non-yellowing
- Abrasion and chemical resistant
- Adheres to most common construction materials when suitable primer is used

PRODUCT INFORMATION

Packaging	5 gal. (19 L) pails	
Shelf Life	12 months in original, unopened and undamaged sealed containers	
Storage Conditions	Store dry between 35 and 77 °F (2–25 °C). Condition material to 50 - 77 °F (10- 25°C) before using for ease of application.	
Color	Gray	
Density	11.76 lb./gal. (1409.1 kg/m3)	
Solid content by volume	80.25 %	(ASTM D-2697)

Volatile organic compound (VOC) content	14.74 g/l	(ASTM D-2369-81)
Tensile Strength	**Sikalastic®-325 Lo-VOC with Sika® Reemat Premium** 900 psi	(ASTM D-751 Proc. B) 73°F (23°C) 50 % R.H.
Elongation at Break	**Sikalastic®-325 Lo-VOC with Sika® Reemat Premium** 20%	(ASTM D-751) 73°F (23°C) 50 % R.H.
Tear Strength	**Sikalastic®-325 Lo-VOC with Sika® Reemat Premium** 280 lbf/in	(ASTM D-624) 75°F (24°C) 50 % R.H.
Service Temperature	-22–176 °F (-30–80 °C) intermittent	
Chemical Resistance	Most common contaminants, oils, grease, dilute acids and base	

APPLICATION INFORMATION

Ambient Air Temperature	41 °F (5 °C) min. / 95 °F (35 °C) max
Relative Air Humidity	80 % R.H. max
Dew Point	Beware of condensation. The substrate and uncured coating must be ≥ 5 °F (3 °C) above dew point.
Substrate Temperature	41 °F (5 °C) min. / 140°F (60°C) max.

Waiting / Recoat Times

Ambient conditions	Minimum waiting time overcoating
+40 °F / 50 % r.h.	18 hours
+50 °F / 50 % r.h.	8 hours
+70 °F / 50 % r.h.	6 hours

*After 7 days the surface must be cleaned and primed with Sika® Reactivation Primer before continuing.
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use

Ambient conditions	Full cure
+40 °F / 50 % r.h.	24 hours
+50 °F / 50 % r.h.	18–24 hours
+70 °F / 50 % r.h.	12–18 hours

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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

- Minimum age of concrete must be 28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect material with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing or blistering may occur.
- Do not use for indoor applications unless sufficient airflow and ventilation are provided to prevent odors and/or vapors from leaving the immediate work area.
- 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/or vapors into the building/structure during product application and cure.
- 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
- When applying over existing coatings or membranes compatibility and adhesion testing and subsequent approval by Technical Services is required.
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure.
- On grade concrete decks should not be covered with Sikalastic® waterproofing membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic® waterproofing systems without additional deck evaluation and subsequent approval by Sika Technical Services.
- Do not subject to continuous immersion, i.e., fountains, ponds, pools, or interior of tanks.
- Not recommended for use over ceramic tile.
- Sikalastic®-325 Lo-VOC requires proper water management including proper drainage on a waterproofing membrane level and proper use of pitched or sloped substrate

ENVIRONMENTAL, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surface Preparation
All substrate surfaces shall be clean, dry, and sound. Acceptable substrates include: sound concrete and cementitious screed, metals, wood, modified bitumen, brick and stone, slate and tile, and existing liquid applied membranes.

Concrete and cementitious substrates
Cementitious or mineral-based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface (CSP 3-5 per ICRI guidelines). Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. The amount of embedment coat required may increase over rough or highly porous surfaces. Repairs to the substrate, filling of joints, blowholes/voids, and surface leveling must be carried out. Consult Sika for product recommendations based on project requirements. High spots must be removed by grinding or similar method. Outgassing is a naturally occurring phenomenon through concrete that can produce pinholes in liquid-applied materials. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any waterproofing work. Particular requirements for priming must also be considered. Installing the primer and membrane either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the primer and embedment coat in the late afternoon or evening.

Gypsum and Cement based sheathing
Sheathing boards shall be clean, dry and dust free. Secure loose boards if in sound condition. Damaged or contaminated boards shall be removed and replaced.
Brick and stone
Power wash and use biodegradable non-sudsing detergent with clean water rinse as required.
Asphalt
Power wash and use biodegradable non-sudsing detergent with clean water rinse as required. All major cracks should be sealed to allow continuity of the Sikalastic® Waterproofing system
Bituminous coatings
Remove any loose or degraded coatings.
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

Wooden substrates
Timber and timber-based decks require additional reinforcement such as the installation of plywood, approved insulation or cover board. Small timber protrusions and suitable decks may be treated directly, provided that the timber is of exterior quality, e.g. plywood. Fill joints flush with Sikaflex® sealant.

Primer Selection:
Primer is required for all applications of Sikalastic®-325 Lo-VOC.

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, aluminum, steel, carbon steel, stainless steel, PVC, 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® EP Primer/Sealer- For Wood (timber, plywood) and Metal (aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc). 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.

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 10 mils (~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 10 mils (~160 sf/gal) per application. Work primer well into the substrate to ensure adequate penetration. Apply evenly without puddling. For applications as a moisture barrier and additonal infomation refer to seperate primer data sheet.

MIXING

No mixing necessary

APPLICATION

Primer
Apply a primer suitable for the substrate. Allow primer to cure completely before applying Sikalastic®-325 Lo-VOC resin.

Detailing
Non-structural cracks up to 1/16": Detail application not necessary. Apply embedment/base resin layer per below.
Non-structural cracks between 1/16" and 1/4": Rout and seal with Sikaflex® sealant. Apply 40-45 mil resin layer embedded with 3 inch Sika® Flexitape Heavy centered over crack. Alternativly Sika® Joint Tape SA can be applied. Apply embedment/base resin layer per below.
Cracks and joints between 1/4" and 1": Rout and seal with Sikaflex® sealant. Apply bond breaker tape sufficient to span width of crack or joint followed by 40-45 mil resin layer embedded with 6'' Sika® Flexitape Heavy centered over crack or joint. Apply embedment/ base resin layer by terminating Sika® Reemat Premium at edges of crack or joint overlapping Sika® Flexitape Heavy a minimum of 2'' on both sides.
Joints greater than 1": Treat as expansion joint. Consult Sika for recommendations.
Metal seams and plywood/coverboard joints: Apply 40–45 mil resin layer embedded with 3 or 6''

Sika® Flexitape Heavy centered over seam. Alternatively, Sika® Joint Tape SA can be applied centered over seam. Apply embedment resin layer per below.

System Application

Sika® Reemat - Base Resin

Apply Sikalastic®-325 Lo-VOC resin to the primed substrate surface by dip and roll application with 1/2" (12.7 mm) nap phenolic resin core roller or brush at the specified application rate to achieve a uniform and consistent wet mil thickness. Material can also be squeegeed, in which case it should also be backrolled. Place Sika® Reemat in wet base resin layer overlapping seams a minimum of 2'' (place frayed edge over cut edge of roll) and apply wet roller to topside to saturate completely. After approximately 5 minutes the binder will begin to dissolve allowing the fiber strands to conform to irregular surfaces. Do not over work once the fibers have conformed to the substrate. Apply Sika® Reemat into the wet embedment resin and roll the scrim to achieve full saturation and embedment. Reemat shall be cut to conform to substrate transitions and flashing conditions. Resin shall saturate the Reemat from below. Apply additional Sikalastic®-325 Lo-VOC resin as required to ensure full scrim embedment. Allow to cure completely before applying subsequent resin layers.

Sika® Reemat - Intermediate and Top Resin

Apply Sikalastic®-325 Lo-VOC resin to the cured Sikalastic® Reemat base layer by means of 1/2" (12.7 mm) nap phenolic resin core roller or brush at the specified application rate to achieve a uniform and consistent wet mil thickness. Material can also be squeegeed, in which case it should also be backrolled. Allow to cure completely before applying subsequent resin layer, if specified.

CLEANING OF TOOLS

Clean all tools and application equipment with appropriate solvent immediately after use. Hardened and/or cured material can only be removed mechanically.

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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