

PRODUCT DATA SHEET

Sikalastic[®]-320 SL

SINGLE COMPONENT, SELF-LEVELING, BITUMEN MODIFIED WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikalastic[®]-320 SL is a single component, self-leveling, liquid applied, bitumen modified, coal tar free, moisture cured polyurethane waterproofing membrane.

USES

- Planters
- Between Slabs
- Plazas and Pavers
- Foundation Walls
- Bridges and Tunnels

CHARACTERISTICS / ADVANTAGES

- Easy Application
- Applies on green and damp concrete
- Alkali Resistant
- Designed for horizontal applications
- Solvent Free
- Meets the requirements of ASTM C 836
- Ability to catalyze with water
 - Faster cure rate
 - Reduce chance of pinholes from concrete outgassing

PRODUCT INFORMATION

| | | |
|--------------------------------|---|------------------|
| Packaging | 5 gallon (18.9 liter) pail. 55 gallon drum, net fill 50 gallons (189 liters) | |
| Shelf Life | 12 months from date of manufacture in original, factory-sealed containers | |
| Storage Conditions | Store indoors at temperatures between 65–85 °F (18–30 °C) | |
| Color | Black | |
| Solid content by mass | 96 ± 2 % | (ASTM D-236) |
| Solid content by volume | 95 ± 2 % | (ASTM D-2697) |
| Viscosity | 30 ± 10 | (Poise at 80 °F) |

TECHNICAL INFORMATION

| | | |
|--------------------------|----------------------------|--|
| Shore A Hardness | 30 ± 5 | (ASTM D-2240) 75 °F (24 °C) 50 % R.H. |
| Tensile Strength | 500 ± 50 pli | (ASTM D-412) 75 °F (24 °C) 50 % R.H. |
| Elongation at Break | 500 ± 50 % | (ASTM D-412) 75 °F (24 °C) 50 % R.H. |
| Tear Strength | 80 ± 15 psi | (ASTM D-624) 75 °F (24 °C) 50 % R.H. |
| Service Temperature | -25–200 °F (-31.7–93.3 °C) | |
| Water Vapor Transmission | 1 ± 0.2 Perms | (ASTM E-96, Procedure B - Wet Cup) 75 °F (24 °C) 50 % R.H. |

APPLICATION INFORMATION

| | |
|------------------------|--|
| Coverage | 50 ft ² /gal results in 30 ± mils DFT 25 ft ² /gal results in 60 ± mils DFT (standard) 18 ft ² /gal results in 90 ± mils DFT 13 ft ² /gal results in 120 ± mils DFT |
| Waiting / Recoat Times | Application on Green Concrete Horizontal: 48 hours or walkable conditions Vertical: 24 hours after forms removed |

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

- Higher temperatures and/or high humidity will accelerate the cure time.
- In cold weather conditions, use pail warmers or preconditioning to assist in workability.
- Containers that have been opened must be used as soon as possible.
- For applications on light weight concrete, the substrate must have a compressive strength of at least 4000 psi and a minimum tensile strength of 200 psi at 28 days, contact Sika Technical Services prior to application.
- Not recommended for asphalt surfaces.
- For applications on Oriented Strand Board (OSB), contact Sika Technical Services prior to application.
- Membrane should not be applied under thin-set tile.

Mortar beds applied above Sikalastic®-320 SL should be at least 2" thick.

- Substrate temperatures should be greater than 40 °F and less than 110 °F
- Do not apply to porous or damp surfaces where moisture vapor transmission will occur during application and cure. Exposure to direct sunlight can exacerbate vapor transmission during cure. Apply Sikalastic®-320 SL in shaded areas and/or during falling temperatures or contact Sika for use of suitable primer in this situation.
- Sikalastic®-320 SL must not be submerged or subject to ponding water
- Sikalastic®-320 SL must not be exposed to sunlight or UV radiation for more than 14 days.
- All surfaces where Sikalastic®-320 SL is applied must be "sloped to drain" to prevent standing or ponding water.
- Contact Sika Technical services prior to using Sikalastic®-320 SL on Plaza Decks where vegetation is planned.

ENVIRONMENTAL, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces may be dry or damp, but must be sound and free of standing water, dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants. Scratch and remove sheen for metal surfaces before applying primer. Scratch marine grade and high density plywood with sandpaper before applying primer.

MIXING

Before application, Sikalastic®-320 SL should be thoroughly mixed using a mechanical mixer and jiffy style paddle at slow speed for 2 minutes minimum to ensure a homogeneous material. Take care not to allow entrapment of air into the material. Do not mix in an up and down motion.

Using Optional Water Catalyst: Before application, mix Sikalastic®-320 SL using a mechanical mixer and jiffy style mixing paddle at a slow speed. At a ratio 1 part of water to no less than 40 parts Sikalastic®-320 SL. For a 5 gal pail, add 1 pint (16 oz) of water (less water may be used to extend working time). Mix until homogenous mix, typically 3 minutes. Use care not to allow the entrapment of air into the mixture. Do not mix in an up and down motion. Once water is mixed with Sikalastic®-320 SL apply within 20 minutes.

APPLICATION

Sikalastic®-320 SL may be applied with a brush, squeegee, trowel, or roller. Apply up to 120 mils horizontally per coat. Mix Sikalastic®-320 SL with water to greatly reduce the chance of pinhole formation from concrete outgassing and improve cure rate. Cured membrane must be pinhole free after application to validate warranty. (Contact Sika Technical Services for Plaza Deck applications where vegetation is planned). **Priming:** Some warranties and/or substrates may require the use of a primer. See “Sikalastic® 320 Warranty Guidelines” for more information. Use the following

primers accordingly: Sikadur® 22 LM FS for concrete, PVC and marine-grade or high-density plywood; Sikalastic® Recoat Primer for Fiberglass; and Sikalastic® PF Lo-VOC Primer for all other surfaces including concrete, EIFS, DensGlass, metal, and marine-grade or high-density plywood.

Joints, Cracks and Flashing: For all cracks up to 1/16” width apply a 4” wide, 30 mil stripe coat of Sikalastic®-320 SL centered over the crack. All cracks over 1/16” width must be routed to at least ¼” by ¼” sealed with the appropriate Sikaflex® sealant and coated with a 4” wide, 30 mil stripe coat centered on the sealant. When sealing green concrete, use Sikaflex®1a. Sealant may be overcoated when tack-free. Sika Flexitape Heavy reinforcing fabric may be required for metal flashing transitions, plywood seams, and expansion joints by embedding reinforcing in 15 mils of membrane then coating with another 15 mils of membrane.

Curing and Recoating: At 75 °F (24 °C) and 50 % relative humidity, allow each coat of Sikalastic®-320 SL to cure 16–24 hours* minimum. When using water as a catalyst: allow Sikalastic®-320 SL to cure a minimum of 2–4 hours* before proceeding to subsequent coats. If more than 48 hours pass between coats the surface must be solvent wiped and primed with Sikalastic Recoat Primer.

Flood Test: After Sikalastic®-320 SL has cured (16–24 hours), plug drains and provide proper means to contain flood water. Flood deck with a 2” head of water and allow to stand for 24 hours. Check for leaks and immediately make repairs if required. Retest after any repairs have been made. If a flood test cannot be completed in within 3 days of application, cover Sikalastic®-320 SL with a protection course to prevent damage from other trade work until a successful flood test is completed.

Membrane Protection: As soon as possible after completion of a successful flood test, visual inspection and/or repairs, cover membrane with an approved drainage mat or protection board. Sikalastic®-320 SL should not be exposed to sunlight or UV radiation for more than 14 days.

CLEANING OF TOOLS

Equipment should be immediately cleaned with an environmentally safe solvent, as permitted under local regulations.

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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