

## PRODUCT DATA SHEET

# Sikalastic®-320 SL

Single Component, Bitumen Modified Waterproofing Membrane

### DESCRIPTION

Sikalastic® 320 is a single component, liquid applied, bitumen modified, coal tar free, moisture cured polyurethane waterproofing membrane available in self-leveling (SL), sprayable (SG) and non-sag (NS) consistencies.

### USES

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

### CHARACTERISTICS / ADVANTAGES

- Easy Application
- Applies on green and damp concrete
- Alkali Resistant
- Quick Re-coat time
- Ability to catalyze with water
- Faster cure rate
- Reduce chance of pinholes from concrete out-gassing
- Apply at any thickness horizontally
- Solvent Free

### PRODUCT INFORMATION

<b>Packaging</b>	5 gallon (18.9 liter) pail. 55 gallon drum, net fill 50 gallons (189 liters)	
<b>Colour</b>	Black	
<b>Shelf Life</b>	12 months from date of manufacture in original, factory-sealed containers	
<b>Storage Conditions</b>	Store indoors at temperatures between 65–85 °F (18–30 °C)	
<b>Solid content by weight</b>	96 ± 2 %	(ASTM D-236)
<b>Solid content by volume</b>	95 ± 2 %	(ASTM D-2697)
<b>Volatile organic compound (VOC) content</b>	45.3 g/L	(ASTM D-2369-81)
<b>Viscosity</b>	30 ± 10	(Poise at 80 °F)

### TECHNICAL INFORMATION

<b>Shore A Hardness</b>	30 ± 5	(ASTM D-2240) 75 °F (24 °C) 50 % R.H.
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<b>Tensile Strength</b>	500 ± 50 pli	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
<b>Elongation at Break</b>	500 ± 50 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
<b>Tear Strength</b>	80 ± 15 psi	(ASTM D-624) 75 °F (24 °C) 50 % R.H.
<b>Permeability to Water Vapour</b>	1 ± 0.2 Perms	(ASTM E-96-15) 75 °F (24 °C) 50 % R.H.
<b>Service Temperature</b>	-25–200 °F (-31.7–93.3 °C)	

## APPLICATION INFORMATION

<b>Yield</b>	50 ft <sup>2</sup> /gal results in 30 ± mils DFT 25 ft <sup>2</sup> /gal results in 60 ± mils DFT (standard) 18 ft <sup>2</sup> /gal results in 90 ± mils DFT 13 ft <sup>2</sup> /gal results in 120 ± mils DFT	
<b>Waiting Time / Overcoating</b>	Application on Green Concrete <b>Horizontal:</b> 48 hours or walkable conditions <b>Vertical:</b> 24 hours after forms removed	

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## 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.
- Not recommended for light weight concrete, Oriented Strand Board (OSB) or asphalt surfaces.
- Membrane should not be applied under thin set tile. Mortar beds applied above Sikalastic® 320 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 in shaded areas and/or during falling temperatures or contact Sika for use of suitable primer in this situation.

## ECOLOGY

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 this 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). Use care not to al-

low 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 90 mils vertically and 120 mils horizontally per coat. Mix Sikalastic®-320 SL with water to greatly reduce the chance of pinhole formation from concrete out-gassing and improve cure rate. Cured membrane must be pinhole free after application to validate warranty.

**Priming:** Some warranties and/or substrates may require the use of a primer. See “Sikalastic® 320 Warranty Guidelines” for more information. Use: Sikalastic® FTP Lo-VOC Primer for green or damp concrete (when required by warranty); Sikaflex® Primer 449 for PVC; 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 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.

**Reinforcement:** Sika® Fleece 120 reinforcing fabric may be required for some warranties. Embed Sika® Fleece 120 into a 60 mil coat of Sikalastic® 320 with a ½” to ¾” nap roller. Allow membrane to cure. Then apply another 60 mil coat of Sikalastic®-320 SL on top of the existing coat. Overlap Sika® Fleece 120 3” along the sides and 6” at the roll ends.

**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.

**Membrane Protection:** As soon as possible after com-

pletion of a successful water 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.

**Flood Test:** After Sikalastic®-320 SL has cured, 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.

## CLEANING OF TOOLS

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

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 in accordance with Sika's recommendations. 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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### Product Data Sheet

Sikalastic®-320 SL  
November 2023, Version 01.01  
020915255000000004

Sikalastic-320SL-en-TW-(11-2023)-1-1.pdf

