

## 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

<b>Packaging</b>	5 gallon (18.9 liter) pail. 55 gallon drum, net fill 50 gallons (189 liters)	
<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>Color</b>	Black	
<b>Solid content by mass</b>	96 ± 2 %	(ASTM D-236)
<b>Solid content by volume</b>	95 ± 2 %	(ASTM D-2697)
<b>Viscosity</b>	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 <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
Waiting / Recoat Times	Application on Green Concrete <b>Horizontal:</b> 48 hours or walkable conditions <b>Vertical:</b> 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

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 application.

**Concrete** - New concrete must be cured a minimum of 28 days prior to application. Old concrete must be free of loose aggregate, dirt and be dry. New and old concrete should be Shot-, Water- or Abrasive-blasted. Grease spots and oil should be chemically cleaned with appropriate cleaners or mechanically removed.

**Plywood** - The only acceptable grade of plywood is APA rated exterior grade or better. The appearance and physical characteristics of the plywood and grade should be considered. Plywood should be new or cleaned and sanded.

**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

Some warranties and/or substrates may require the use of a primer. See "Sikalastic® 320 Warranty Guidelines" for more information.

For applications with primer over concrete, the primer used will depend on the moisture level of the concrete.

Measure the moisture content of concrete substrate with a Tramex CME or CMExpert type concrete moisture meter.

Do not prime over an existing crack and joint detail coats.

### PRIMER SELECTION

**Sikadur®-22 Lo-Mod FS** - For concrete with a maximum moisture content of 4 % by weight, plywood decks, aluminum, steel, carbon steel, stainless steel, and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod FS 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 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 Lo-VOC Primer** - For plywood decks, concrete with a maximum moisture content of 5 % by weight, apply a single coat of Sikalastic® FTP LoVOC Primer with a flat squeegee or roller at approximately 175 sf/gal. Work primer well into the substrate to ensure adequate penetration and sealing. Apply evenly without puddling. Refer to separate primer data sheet for additional information.

**Sikalastic® MT Primer** - For concrete with a maximum moisture content of 5 % by weight, apply a single coat application of Sikalastic® MT 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® MT Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing. Apply evenly without puddling. Refer to a separate primer data sheet for additional information.

**Sikalastic® EP Primer/Sealer-** For Wood (timber, plywood) and Metal (steel, carbon steel, galvanized steel, stainless steel, aluminum, brass, lead, copper). 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® PF Lo-VOC Primer** - For concrete with a porous or rough surface and a maximum moisture content of 4 % by weight, plywood decks and steel, use Sikalastic® PF Lo-VOC Primer. 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. Refer to separate primer data sheet for additional information.

**NOTE:** For rough or porous concrete or when outgassing is a concern, use Sikadur® 22 Lo-Mod FS, Sikalastic FTP LoVOC or Sikalastic® PF LoVOC Primer at an approximate rate of 80-160 sq.ft/gal. This rate may vary on the porosity of the substrate. The surface must be totally covered with primer with no dry spots or spots where the primer has completely absorbed into the substrate, multiple coats may be required. Allow primer to become tack free before proceeding to the next phase.

Product Data Sheet

Sikalastic®-320 SL

June 2023, Version 01.10

02091525500000004

## MIXING

Sikalastic®-320 SL should be thoroughly mixed using a mechanical mixer and jiffy style paddle at slow speed for a minimum of 2 minutes 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.

### Optional Water Catalyst:

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 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

### DETAILING:

#### For moving and non-moving cracks less than 1/16"

**width:** Apply a 30 mil detail coat of Sikalastic®-320 SL, 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 30 mil detail coat of Sikalastic®-320 SL, 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 less than 1.5" width:

Joints should be sealed with the appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 30 mil detail coat of Sikalastic®-320 SL, extending 2" on either side and centered over the crack.

**For expansion joints 1.5" or greater width:** Should be treated as expansion joints and brought up through the Sikalastic®-320 SL membrane and/or Emseal Expansion Joint System, Sikadur Combiflex SG or other appropriate joint sealing system should be used. Contact Sika Technical Services for recommendations prior to application.

**Fabric reinforcement** - Sika does not require reinforcing of the detail coat when going over cracks and joints. In situations where reinforcing detail coats is required, use a 3" wide strip of Sika Flexitape Heavy as the reinforcing. Please see the Sika Flexitape Heavy product data sheet for installation instructions.

## 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 out-gassing 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).

### 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 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

### Product Data Sheet

Sikalastic®-320 SL

June 2023, Version 01.10

020915255000000004

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](http://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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

**NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



**Product Data Sheet**

Sikalastic®-320 SL  
June 2023, Version 01.10  
020915255000000004

Sikalastic-320SL-en-US-(06-2023)-1-10.pdf

