

## PRODUCT DATA SHEET

# Sikalastic®-320 NS

SINGLE COMPONENT, NON-SAG, BITUMENT MODIFIED WATERPROOFING MEMBRANE

### PRODUCT DESCRIPTION

Sikalastic®-320 NS is a single component, Non-Sag, 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
- Can be applied horizontally and vertically
- Alkali Resistant
- Quick Re-coat time
- Apply at any thickness horizontally up to 120 mils
- Solvent Free
- Meets the requirements of ASTM C 836
- Ability to catalyze with water
  - Faster cure rate
  - Reduce chance of pinholes from concrete out-gassing

### PRODUCT INFORMATION

<b>Packaging</b>	5 gallon (18.9 liter) pail. 55 gallon drum, net fill 50 gallons (189 liters)	
<b>Color</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 mass</b>	96 ± 2 %	(ASTM D-236)
<b>Solid content by volume</b>	95 ± 2 %	(ASTM D-2697)
<b>Volatile organic compound (VOC) content</b>	See Product Safety Data Sheet	
<b>Viscosity</b>	350 ± 100	(Poise at 80 °F)

## TECHNICAL INFORMATION

Shore A Hardness	30 ± 5	(ASTM D-2240) 75 °F (24 °C) 50 % R.H.
Tensile Strength	450 ± 50 pli	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Elongation at Break	450 ± 50 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Tear Strength	100 ± 15 psi	(Die C, ASTM D-624) 75 °F (24 °C) 50 % R.H.
Permeability to Water Vapor	1 ± 0.2 Perms	(ASTM E-96-15) 75 °F (24 °C) 50 % R.H.
Service Temperature	-25–200 °F (-31.7–93.3 °C)	

## 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 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.
- Sikalastic®-320 NS must not be submerged or subject to ponding water.
- Sikalastic®-320 NS must not be exposed to sunlight or UV radiation for more than 14 days.
- All surfaces where Sikalastic®-320 NS is applied must be "sloped to drain" to prevent standing or ponding water.
- Contact Sika Tecncal services prior to using Sikalastic®-320 NS on Plaza Decks where vegetation is planned.

## 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

### 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 NS 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 NS 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 NS. 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 NS apply within 20 minutes.

### APPLICATION

Sikalastic®-320 NS 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 NS 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).

**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: 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 NS 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 NS to cure 16–24 hours\* minimum. When using water as a catalyst: allow Sikalastic®-320 NS 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 NS 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 NS 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 NS 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](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

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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.

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**Product Data Sheet**

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