

PRODUCT DATA SHEET

Sikalastic®-320 SG

SINGLE COMPONENT, SPRAYABLE, BITUMEN MODIFIED WATERPROOFING MEMBRANE

PRODUCT 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
- Sprayable
- 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
- Meets the requirements of ASTM C 836

PRODUCT INFORMATION

Packaging	5 gallon (18.9 liter) pail. 55 gallon drum, net fill 55 gallons (208 liters)	
Color	Black	
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)	
Solid content by weight	88 ± 2 %	(ASTM D-236)
Solid content by volume	88 ± 2 %	(ASTM D-2697)
Volatile organic compound (VOC) content	89.07 g/L	(ASTM D-2369-81)
Viscosity	150 ± 50	(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	47 ft ² /gal results in 30 ± mils DFT 23 ft ² /gal results in 60 ± mils DFT (standard) 15 ft ² /gal results in 90 ± mils DFT 11 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

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 SG 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 (only for application by hands) : Before application, mix Sikalastic®-320 SG 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 SG. 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 SG apply within 20 minutes. Do not mix Sikalastic®-320 SG with water when using an airless sprayer.

APPLICATION

Sikalastic®-320 SG may applied with an airless sprayer. Apply up to 90 mils vertically and 120 mils horizontally per coat. Mix Sikalastic®-320 SG 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 SG 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 SG with a ½" to ¾" nap roller. Allow membrane to cure. Then apply another 60 mil coat of Sikalastic® 320 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 SG to cure 16–24 hours* minimum. When using water as a catalyst: allow Sikalastic®-320 SG 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.

Spray Equipment: Use Sikalastic®-320 SG with a Graco GH 833 Big Rig or Titan Hydra Pro IV airless pump. Use a 1.5" Solvent-Resistant Siphon Kit, 1/2" High Pressure Hose (4000 psi), 1/4" x 3' High Pressure Whip (4000 psi), Graco 535 Spray Tip, 15" Tip Extension Wand, and a Graco Flex Plus Gun. Contact Sika Technical Services for more information.

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

Flood Test: After Sikalastic®-320 SG 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 SG 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.

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 SG 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 SG in shaded areas and/or during falling temperatures or contact Sika for use of suitable primer in this situation.
- Do not mix Sikalastic®-320 SG with water when using an airless sprayer.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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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