



PRODUCT DATA SHEET

Sikalastic®-320 NS

SINGLE-COMPONENT, NON-SAG, BITUMEN-MODIFIED POLYURETHANE WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikalastic®-320 NS is a single-component, liquid-applied, non-sag, bitumen-modified, coal tar-free, moisture-cured polyurethane waterproofing membrane. Sikalastic®-320 NS is also available in self-levelling (SL) and sprayable (SG) grades. Refer to individual product data sheets for specific information

WHERE TO USE

- Foundation walls
- Plazas and pavers
- Between slabs
- Planters
- Bridges and tunnels

CHARACTERISTICS / ADVANTAGES

- Easy application
- Can be applied vertically and horizontally
- Applies on green and damp concrete
- Alkali resistant
- Quick re-coat time
- Ability to catalyze with water
- Faster cure rate
- Solvent-free
- Meets the requirements of ASTM C836

PRODUCT INFORMATION

Packaging	18.9 L (5 US gal.) pail - 208 L drum (55 US gal.), net fill 189 L (50 US gal.)	
Colour	Black	
Shelf Life	1 year in original, unopened packaging under proper storage conditions.	
Storage Conditions	Store dry (indoors) at temperatures between +15 °C and +35 °C (60 °F and 95 °F).	
Density	Specific Gravity: 1.19	
Solid content by weight	99 % ± 2	(ASTM D236)
Solid content by volume	95 % ± 2	(ASTM D2697)
Volatile organic compound (VOC) content	46 g/L	(ASTM D2369-81)
Viscosity	350 ± 100	(Poise at 27 °C (80 °F))

TECHNICAL INFORMATION

Shore D Hardness	80 ± 5	(ASTM D2240)
Tensile Strength	80 pli ± 15	(ASTM D412)
Elongation at Break	450 % ± 50	(ASTM D412)
Tear Strength	100 psi ± 15	(Die C, ASTM D624)
Water Vapour Transmission	1 ± .2	(ASTM E96-15) (Perms)
Chemical Resistance	Consult Sika Canada	
Service Temperature	-31.7 °C to +93.3 °C (25 °F to 200 °F)	

APPLICATION INFORMATION

Yield	1.26 m ² /L - 50 ft ² /US gal. at 30 ± mil d.f.t. 0.62 m ² /L - 25 ft ² /US gal. at 60 ± mil d.f.t. (standard) 0.44 m ² /L - 18 ft ² /US gal. at 90 ± mil d.f.t. 0.37 m ² /L - 15 ft ² /US gal. at 120 ± mil d.f.t.
Waiting Time / Overcoating	Curing and Recoating At 24 °C (75 °F) and 50 % relative humidity, allow each coat to cure 16 to 24 hours* minimum. When using water as a catalyst, allow Sikalastic®-320 NS to cure a minimum of 2 to 4 hours* before proceeding to subsequent coats. If more than 48 hours pass between coats, the surface must be wiped with a solvent and primed with Sikalastic® Recoat Primer. <i>* See Limitations</i> Application on Green Concrete Horizontal: 48 hours or walkable conditions Vertical: 24 hours after form removal

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

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.
- Minimum application temperature: 4 °C (39 °F)
- Sikalastic®-320 NS should not be submerged or subject to ponding for more than 72 hours.
- Containers that have been opened must be used as soon as possible.
- Not recommended for Oriented Strand Board (OSB) or asphalt surfaces.
- Membrane should not be applied under thin set tile. Mortar beds applied above Sikalastic®-320 NS should

be at least 50 mm (2 in) thick.

- Do not apply to porous or damp surfaces where moisture vapour transmission will occur during application and cure. Exposure to direct sunlight can exacerbate vapour transmission during cure.
- Apply Sikalastic®-320 NS in shaded areas and/or during falling temperatures or contact Sika Canada for use of a suitable primer in this situation.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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.

MIXING

Before application, Sikalastic®-320 NS should be thoroughly mixed at slow speed for 1 min 30 sec. (minimum) using a mechanical mixer fitted with a *Jiffy* style paddle to achieve an homogeneous consistency. Ensure not to allow entrapment of air into the material. Do not mix in an up and down motion, the paddle must remain constantly immersed in the product during mixing.

Using Optional Water Catalyst: Before application, mix Sikalastic®-320 NS at low speed using a mechanical mixer fitted with a *Jiffy* style mixing paddle. At a ratio 1 part of water to no less than 40 parts Sikalastic®-320 NS. For a 18.9 L (5 US gal.) pail, add 470 mL (16 US fl. oz) of water (less water may be used to extend working time). Avoid air entrapment into the mixture during mixing. Do not mix in an up and down motion, the paddle must remain constantly immersed in the product during mixing. 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 mil vertically and 120 mil 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.

Flood Test: After Sikalastic®-320 NS has cured, plug drains and provide proper means to contain flood water. Flood deck with a 50 mm (2 in) 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 three (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 water test, visual inspection and/or repairs, cover all horizontal membranes with an approved drainage mat and optional protection board. Sikalastic®-320 NS should not be exposed to sunlight or UV radiation for more than 14 days. For all vertical membranes, cover immediately after cure with a protection course.

Joints, Cracks and Flashing: For all cracks up to 1.5 mm (1/16 in) in width, apply a 100 mm (4 in) wide, 30 mil thick stripe coat of Sikalastic®-320 NS centered over

the crack. All cracks exceeding 1.5 mm (1/16 in) in width must be routed to at least 6 mm x 6 mm (¼ in x ¼ in), sealed with the appropriate Sikaflex® sealant and coated with a 10 mm (4 in) wide, 30 mil stripe coat centered on the sealant. Sika® Flexitape Heavy reinforcing fabric may be required for metal flashing transitions, plywood seams, and expansion joints by embedding reinforcing in 15 mil of membrane then coating with another 15 mil of membrane.

Reinforcement: Sika® Fleece-120 non-woven needle punched polyester fleece reinforcing fabric may be desired for some applications to enhance strength and durability of membrane. Embed Sika® Fleece-120 into a 60 mil coat of Sikalastic®-320 NS with a 13 mm (½ in) to 20 mm (¾ in) nap roller. Allow membrane to cure. Then apply another 60 mil coat of Sikalastic®-320 NS on top of the existing coat. Overlap Sika® Fleece-120 75 mm (3 in) along the sides and 150 mm (6 in) at the roll ends.

CLEAN UP

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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