

PRODUCT DATA SHEET

SARNAFIL® G 476 SA WATERPROOFING MEMBRANE

Sarnafil G 476 SA (self-adhered) Waterproofing Membrane is a self-adhered composite sheet consisting of a reinforced thermoplastic waterproofing membrane and a foam backing coated with a pressure-sensitive adhesive that can be applied directly to a concrete substrate or other approved substrates.

PRODUCT INFORMATION

USES

Sarnafil G 476 SA is used in horizontal applications receiving overburden.

AREAS OF APPLICATION

- Plaza Decks
- Green Roofs
- Balconies
- Terraces

Sika Approved Substrates

- Structural Concrete
- Precast/Prestressed Concrete
- DensDeck™ Prime

FEATURES / BENEFITS

- Specially compounded for sub-grade environments of constant dampness, high alkalinity, exposure to plant roots, fungi, and bacterial organisms, as well as low levels of hydrostatic pressure including ponded water conditions
- Integral fiberglass mat reinforcement for excellent dimensional stability
- Heat welded seams for strength and security
- The closed-cell foam backing acts as a separation layer and an integral cushioning layer allowing the membrane to conform to minor irregularities in the substrate

TESTS

STANDARDS / APPROVALS

- FM Global
- Underwriters Laboratories
- Miami-Dade County
- Florida Building Code
- German FLL
- Swiss SIA 280

PRODUCT DATA

FORM

COMPOSITION

120 mil (3.0 mm) thick composite sheet composed of a 60 mil (1.5 mm) thick Sarnafil G 476 waterproofing membrane with an integral 60 mil (1.5 mm) closed-cell foam backing with a 2.5 in (63.5 mm) selvedge on one side to accommodate heat welding of the seam. The membrane is made of high quality PVC resin, pigments, stabilizers, and additives incorporated and fused into a homogeneous polymer matrix and then coated to both sides of a fiberglass carrier sheet. The foam backing is factory-coated with a pressure sensitive adhesive that is protected by a plastic release liner which is removed during installation.

COLOR

- Top: Orange
- Bottom: White
- Pressure Sensitive Adhesive: Clear

PACKAGING

6.56 ft (2 m) x 65.6 ft (20 m) rolls, 135 lbs (61.2 kg) per roll, 6 rolls per pallet

STORAGE

STORAGE CONDITIONS

Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are unacceptable due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect membrane weldability.

TECHNICAL DATA

TYPICAL PHYSICAL PROPERTIES*

Properties	ASTM Test Method	Typical Results
Overall Thickness, mil	--	120
Membrane Thickness, mil	D751	60
Reinforcing Material	--	Fiberglass
Weight, lb/sq ft (kg/sq m)	--	0.31 (1.53)
Breaking Strength, lbf/in (N)	D751	92 (409)
Elongation at Break, % M.D. ¹ & C.M.D. ¹	D751	255 & 240
Seam Strength, % of original ²	D751	90
Retention of Properties After Heat Aging	D3045	--
Tensile Strength, % of original	D751	95
Elongation, % of original	D751	95
Tearing Resistance, lbf (N)	D1004	17 (76)
Low Temperature Bend, -40°F (-40°C)	D2136	Pass
Linear Dimensional Change, %	D1204	0.01
Weight Change After Immersion in Water, %	D570	2.5
Static Puncture Resistance	D5602	Pass
Dynamic Puncture Resistance, ft-lbf (J)	D5635	Pass

*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions, and curing conditions.

¹M.D. = Machine Direction, C.M.D. = Cross Machine Direction.

²Failure occurs through membrane rupture not seam failure.

SYSTEM INFORMATION

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface shall be smooth, clean and dry. New concrete shall cure a minimum of 14 days or until acceptable adhesion of the membrane has been achieved according to Sika printed quality assurance requirements.

APPLICATION

Sarnafil G 476 SA is installed by an authorized Sika Waterproofing Applicator according to published specifications and details.

Unroll approximately 6 ft - 8 ft (1.8 m - 2.4 m). Use the unrolled portion of the sheet to align and position the G476 SA membrane on the substrate.

Once the sheet is properly aligned, pull back the 6 ft - 8 ft (1.8 m - 2.4 m) of the unrolled portion of the membrane back over the roll to expose the underside. Carefully cut the release liner across the width of the roll and remove it from the foam backing.

Place the 6 ft - 8 ft (1.8 m - 2.4 m) of membrane with the release liner removed onto the substrate using care not to disrupt the alignment and immediately roll into place.

Pull the roll back onto the adhered portion of the sheet until the end of the release liner is visible and accessible. Begin to slowly remove the release liner in the direction of the membrane application.

Roll the membrane thoroughly in both directions with a minimum 100 lb (45 kg) linoleum roller to assure bond to the substrate.

Overlap adjacent sheets with the selvedge. Tightly butt the foam backing of adjoining sheets. Check under the selvedge along the 6 ft - 8 ft (1.8 m - 2.4 m) of overlap for foam to foam contact and correct alignment. The foam backing should not overlap onto the adjacent membrane, nor should there be a gap between the foam backing of adjacent sheets. If either of these conditions exists, reposition the sheet to properly butt the two foam backings.

Use a minimum 8 in (20.3 cm) wide, 60-mil thick cover strip where membranes meet at end laps and all non-selvedge edges. Butt adjoining sheets closely, center the cover strip over both membranes and hot-air weld. Do not overlap foam backing onto membrane.

Hot-air weld all membrane overlaps according to Sika specifications and instructions.

Patch all "T"- joints with 4 in (10.2 cm) diameter Sarnafil-G patch or a minimum 4 in (10.2 cm) patch made from maximum 60-mil Sarnafil membrane.

Complete all flashing according to Sika specifications, flashing installation instructions, and details.

PRODUCT LIMITATIONS**LIMITATIONS**

- The ambient and substrate temperature must be 25°F (-4°C) or above when applying Sarnafil G 476 SA over surfaces primed with Vapor Retarder Primer SB or Vapor Retarder Primer VC.
- The ambient and substrate temperature must be 45°F (7°C) or above when applying Sarnafil G 476 SA over surfaces conditioned with Surface Conditioner WB.
- Do not install over coal tar pitch. Sarnafil G 476 SA can be installed over existing residual asphalt-based waterproofing materials provided the material is fully cured, clean, sound and firmly bonded to the substrate.
- Sarnafil membranes are incompatible with asphalt, coal-tar, polystyrene, oil-based and plastic-based cements, creosote, penta-based materials, grease, fats, oils, and solvents. If such contact occurs, the material shall be cut-out, discarded and patched.
- A static electric charge may develop when removing the plastic release liner from the pressure-sensitive adhesive on the back of the membrane. Care should be used when removing and handling the release liner to avoid ignition. Lids must be closed on any flammable products and a fire extinguisher should be readily available.
- The foam backing should not overlap onto the adjacent membrane.
- Sarnafil G 476 SA membrane and flashings must be covered and cannot be left permanently exposed. Typical maximum exposure is limited to 3 months but may vary depending on the location and the time of year. Contact Sika if the anticipated exposure is to exceed 3 months.

AVAILABILITY

From Sika Corporation – Roofing Authorized Applications for use within Sarnafil systems.

MAINTENANCE

Standard maintenance of roofs should include regular inspection of flashings, drains and termination sealants at least twice a year and after each storm.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

LEGAL NOTES

All information provided by Sika Corporation (“Sika”) concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika’s current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika’s instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika’s control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at usa.sarnafil.sika.com or by calling 800-451-2504.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product’s most current Product Data Sheet, product label and Safety Data Sheet which are available online at usa.sarnafil.sika.com or by calling Sika’s Technical Service Department at 800-451-2504. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer’s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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SIKA CORPORATION – ROOFING**UNITED STATES**

100 Dan Road
Canton, MA 02021
800-451-2504 (p)
781-828-5365 (f)
usa.sarnafil.sika.com
webmaster.sarnafil@us.sika.com

SIKA CANADA INC.

6915 Davand Drive
Mississauga, ON L5T 1L5
905-795-3177 (p)
905-795-3192 (f)
can.sika.com
marketing.construction@ca.sika.com