PRODUCT DATA SHEET

Sarnafil® G 410-60 SA

Sarnafil G 410 Roof Membrane is a PVC thermoplastic membrane

PRODUCT DESCRIPTION

Sarnafil® G 410-60 SA Roof Membrane is a PVC thermoplastic membrane with a factory applied pressure-sensitive adhesive backing and siliconized polyethylene release liner. It is produced with an integral fiberglass mat reinforcement for excellent dimensional stability, is highly reflective, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

USES

Sarnafil G 410 SA is used in adhered systems for new roofs, reroofs, and all systems for flashings.

AREAS OF APPLICATION

Sika Approved Insulations and Cover Boards
- Polysiocyanurate Insulations
- High Density Polysiocyanurate Roof Boards
- Gypsum Boards with Primed Facer
- Plywood

CHARACTERISTICS / ADVANTAGES

- VOC free and odor free
- Factory applied adhesive to reduce on-site installation labor and ensure uniform adhesive application
- Low temperature application limit of 20°F (-7°C)
- Excellent dimensional stability
- Factory applied lacquer coating to reduce dirt pick up
- Proven membrane performance
- Heat welded seams
- Superior fire resistance

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- NSF/ANSI 347: Platinum Certified
**PRODUCT INFORMATION**

**Chemical Base**
High-quality PVC membrane containing ultraviolet light stabilizers, flame retardant, fiberglass reinforcement, with a unique lacquer coating on the top surface and pressure-sensitive adhesive with a removable siliconized polyethylene release liner on the back surface.

**Reinforcing Material**
Fiberglass

**Packaging**

<table>
<thead>
<tr>
<th>60 mil (1.5 mm) Membrane</th>
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<tr>
<td>6.56 ft x 65.6 ft (2 m x 20 m) roll, 195 lbs (88 kg) per roll</td>
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<tr>
<td>15 rolls per pallet</td>
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**Appearance / Color**
- Top: Copper Brown, Evergreen, and Lead Gray
- Bottom: Gray
- Pressure Sensitive Adhesive: Clear

**Shelf Life**
Sarnafil G 410 SA has a shelf life of up to 12 months. An extension may be offered, when properly stored between 60°F (16°C) and 80°F (27°C), and out of direct sunlight upon technical review.

**Storage Conditions**
Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability.

**Overall Thickness**
- 60 mil (1.5 mm), minimum thickness 45 mil (ASTM D-751)
- Thickness Above Scrim 27 mil, 16 mil (ASTM Type II D-4434 Spec. Requirement)

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**TECHNICAL INFORMATION**

**Resistance to Static Puncture**
Pass 33 lbf (15 kg) (ASTM Type II D-4434 Spec. Requirement)

**Resistance to Dynamic Puncture**
Pass 7.3 ft-lbf (10 J) (ASTM Type II D-4434 Spec. Requirement)

**Tensile Strength**
- 80 lbf/in (356 N) (ASTM D-751)
- 55 lbf/in (245 N) (ASTM Type II D-4434 Spec. Requirement)

**Elongation at Break**
- 250 & 220% MD & CMD\(^{1}\) (ASTM D-751)
- 250 & 220% MD & CMD\(^{1}\) (ASTM Type II D-4434 Spec. Requirement)

\(^{1}\) MD = Machine Direction, CMD = Cross Machine Direction.

**Linear Dimensional Change**
-0.02% 0.1% (ASTM D-1204)

**Tear Strength**
- 17.5 lbf (78 N) (ASTM D-751)
- 10 lbf (45 N) (ASTM Type II D-4434 Spec. Requirement)

**Seam Strength**
Pass 75% of original\(^{2}\) (ASTM Type II D-4434 Spec. Requirement)

\(^{2}\) Failure occurs through membrane rupture not seam failure.

**Low Temperature Bend**
Pass -40°F (-40°C) (ASTM D-2136)

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**APPLICATION INSTRUCTIONS**

**APPLICATION**

Sarnafil G 410 SA is installed after proper preparation of the approved substrate. The membrane is unrolled and positioned in place with the selvage edge lapping the adjacent roll to allow for the 3” (76 mm) side lap. Fold back half of the sheet onto itself in the long direction and carefully cut the release liner with the cutting tool provided by Sika without damaging the membrane. Peel back 3 - 5” (76 - 127 mm) of the release liner and press firmly onto the substrate. Weight may be necessary on the membrane when first starting. Continue removing the release liner from the membrane in a smooth, wrinkle-free manner while maintaining the 3” (76 mm) side lap. Immediately roll the membrane with a minimum 75 lb (34 kg) steel roller. Remove the remaining release liner from the other half of the membrane using the above process and immediately roll the membrane with the steel roller. Sarnafil G 410 SA side lap seams are heat-welded together by trained operators using hot-air welding equipment. End laps and all cut edges are butted together and an 8” (203 mm) Sarnafil G 410 coverstrip is hot-air welded over the butt and cut edge joints.

Refer to the Sarnafil G 410 SA Flashing Membrane product data sheet when using Sarnafil G 410 SA membrane for flashing use.

**MAINTENANCE**

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

**AVAILABILITY/WARRANTY**

**AVAILABILITY**

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

**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.

**LIMITATIONS**

- The ambient and substrate temperature must be 20°F (-7°C) or above during application.
- Not to be applied directly to concrete decks, lightweight insulated concrete decks, gypsum decks or polystyrene products.
- Sarnafil membranes are incompatible with asphalt, coal tar, heavy oils, roofing cements, creosote and some preservative materials.
- A static electric charge may develop when removing the 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.

**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.
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.

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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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