BUILDING TRUST

PRODUCT DATA SHEET

Sarnafil® G 410-72

Polymeric PVC detailing membrane for roof waterproofing

SIKA NZ APPROVED CONTRACTOR ONLY

DESCRIPTION

Sarnafil® G 410-72 is a multi-layer, synthetic roof waterproofing sheet based on polyvinyl chloride (PVC) with a glass non-woven inlay. Sarnafil® G 410-72 is a hot-air weldable roof membrane, formulated for direct exposure and designed for use in all global climatic conditions.

USES

Sarnafil® G 410-20 L may only be used by experienced professionals.
Detailing membrane for the following Sarnafil system membranes:
- Sarnafil® S 327 L
- Sarnafil® G 410 L Felt

CHARACTERISTICS / ADVANTAGES

- Proven performance over decades
- Lacquer coated surface
- Resistant to permanent UV exposure
- High dimensional stability from glass fleece inlay
- High water vapour permeability
- Resistant to all common environmental influences
- Resistant to micro-organisms
- Hot-air weldable
- No open flame equipment required

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified

PRODUCT INFORMATION

Chemical Base	High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant, and fiberglass reinforcement with a unique lacquer coating on the top surface.
Reinforcing Material	Fiberglass
Packaging	**72 mil (1.8 mm) Membrane** 6.56 ft x 49.2 ft (2 m x 15 m) roll, 159 lbs (72 kg) per roll, 19 rolls per pallet
Appearance / Colour	▪ Top: Lead Gray ▪ Bottom: Gray
Shelf Life	5 years from date of production.
Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +30 °C. Store in a

	horizontal position and fully protected from the weather with clean canvas tarpaulins. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.	
Overall Thickness	72 mil (minimum thickness) 45 mil	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Thickness Above Scrim	35 mil 16 mil	(ASTM D-7635) (ASTM Type II D-4434 Spec. Requirement)

TECHNICAL INFORMATION

Resistance to Static Puncture	Pass 33 lbf (15 kg)	(ASTM D-5602) (ASTM Type II D-4434 Spec. Requirement)
Resistance to Dynamic Puncture	Pass 7.3 ft-lbf (10 J)	(ASTM D-5635) (ASTM Type II D-4434 Spec. Requirement)
Tensile Strength	100 lbf (445 N) 55 lbf (245 N)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Elongation at Break	250 & 220% MD & CMD[1] 250 & 220% MD & CMD[1] [1] MD = Machine Direction, CMD = Cross Machine Direction.	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Linear Dimensional Change	-0.01% 0.1%	(ASTM D-1204) (ASTM Type II D-4434 Spec. Requirement)
Tear Strength	20.5 lbf/in (91 N) 10 lbf/in (45 N)	(ASTM D-1004) (ASTM Type II D-4434 Spec. Requirement)
Seam Strength	Pass 75% of original[2] [2] Failure occurs through membrane rupture not seam failure.	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Retention of Properties after Heat Ageing	Breaking Strength, % of original: Pass Elongation, % of original: Pass Breaking Strength, % of original: 90 Elongation, % of original: 90	(ASTM D-751) (ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Resistance to UV Exposure	Pass 5,000 hours Cracking (7x magnification): None Crazing (7x magnification): None	(ASTM G-154) (ASTM Type II D-4434 Spec. Requirement)
Weight Change after Immersion in Water	1.8% ± 3.0%	(ASTM D-570) (ASTM Type II D-4434 Spec. Requirement)
Flexibility at low temperature	Pass Pass -40°F (-40°C)	(ASTM D-2136) (ASTM Type II D-4434 Spec. Requirement)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Installation
- Application manual

LIMITATIONS

Installation work must only be carried out by Sika® trained and approved contractors experienced in this type of application.
- Ensure Sarnafil® G 410-72 is prevented from direct contact with incompatible materials (refer to compatibility section).
- Do not apply to wet, damp or unclean surfaces
- The use of some ancillary products such as adhes-

ives, cleaners and solvents is limited to temperatures above +5°C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5°C ambient temperature due to safety requirements in accordance with national regulations.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Hot welding overlap seams
Electric hot-air welding equipment, such as hand held manual hot air welding equipment and pressure rollers or automatic hot air welding machines with controlled hot-air temperature capability of a minimum +600°C,
Recommended type of equipment:
- Manual: Leister Triac
- Automatic: Leister Varimat

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. Sarnafil® G 410-72 must be separated from any incompatible substrates/materials by an effective separation layer to prevent accelerated ageing. The support layer must be compatible with the membrane, solvent resistant, clean, dry and free of grease and dust. Metal sheets must be degreased with Sarna Cleaner before adhesive is applied.

APPLICATION

Installation procedure
Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
Flashings
Refer to standard details in Application Manual

Hot welding overlap seams
Overlap seams must be welded by electric hot welding equipment. Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to the type of equipment and the climatic conditions prior to welding. The effective width of welded overlaps by hot-air must be a minimum 20mm.
Testing overlap seams
The seams must be mechanically tested with a screwdriver (with rounded edges) to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

Sika (NZ) Limited
85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz