

PRODUCT DATA SHEET

Sarnafil® G 410-72 Feltback

Polymeric membrane for adhered roof waterproofing

SIKA NZ
APPROVED
CONTRACTOR
ONLY

DESCRIPTION

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

USES

Sarnafil® G 410-72 Feltback may only be used by experienced professionals.

Waterproofing membrane for:

- Fully bonded, exposed roofs

CHARACTERISTICS / ADVANTAGES

- Proven performance over decades
- Lacquer coated surface
- Resistant to permanent UV exposure
- Fast installation with Sarnacol® adhesives
- High dimensional stability from glass fleece inlay
- High water vapour permeability
- Resistant to all common environmental influences
- 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, 177 lbs (80 kg) per roll, 10 rolls per pallet
Appearance / Colour	<ul style="list-style-type: none">▪ 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 ho-

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 (1.8 mm), 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)
Felt Weight	9 oz/yd ² (305g/m ²)	

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/in (445 N) 55 lbf/in (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	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
¹ MD = Machine Direction, CMD = Cross Machine Direction.		
Linear Dimensional Change	-0.01% 0.1%	(ASTM D-1204) (ASTM Type II D-4434 Spec. Requirement)
Tear Strength	20.5 lbf (91 N) 10 lbf (45 N)	(ASTM D-1004) (ASTM Type II D-4434 Spec. Requirement)
Seam Strength	Pass 75% of original ²	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
² Failure occurs through membrane rupture not seam failure.		
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) Crazing (7x magnification)	(ASTM G-154) (ASTM Type II D-4434 Spec. Requirement) None None
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 Feltback is prevented from direct contact with incompatible materials (refer to compatibility section)
- The use of Sarnafil® G 410-72 Feltback membrane is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.
- The use of some ancillary products such as adhesives, 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.
- Sarnafil® G 410-72 Feltback must be installed by loose laying and without stretching or installing under tension.
- Ponding water does not affect the performance properties of the membrane.

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
- Semi-automatic: Leister Triac Drive
- Automatic: Leister Varimat V2

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. Sarnafil® G 410-72 Feltback must be separated from any incompatible substrates / materials by an effective separation layer to prevent accelerated ageing. The supporting 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 procedures as defined in method statements, applications manuals and working instructions which must always be adjusted to the actual site conditions.

Fully bonded roof surfaces and detailing

The roof waterproofing membrane is bonded to the substrate using a Sarnacol® adhesive. The type of adhesive is selected based on the type and slope of substrate. Refer to the individual Sarnacol® adhesive Product Data Sheet.

Hot welding method

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 or equipment and the climatic conditions prior to welding.

Testing overlap seams

The seams must be mechanically tested with a screw-driver (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

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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