

PRODUCT DATA SHEET

Sarnafil® G 476-15 (CN_GB)

POLYMERIC MEMBRANE FOR BALLASTED ROOF WATERPROOFING



DESCRIPTION

Sarnafil® G 476-15 (CN_GB) (thickness 1.5 mm) is a multi-layer, synthetic roof waterproofing membrane based on polyvinyl chloride (PVC) with an inlay of non-woven glass fibre. Sarnafil® G 476-15 (CN_GB) is a hot-air weldable roof membrane, formulated and designed for use in all global climatic conditions.

USES

Waterproofing membrane for ballasted roofs:

- Roof gardens (Intensive / Extensive)
- Utility roofs
- Inverted roofs

Waterproofing membrane for applications with a ballasted protection layer:

- Balconies and terraces
- Plaza decks
- Planters
- Split slab applications
- Concrete slabs

CHARACTERISTICS / ADVANTAGES

- Proven performance over decades
- High dimensional stability from glass fleece inlay
- High water vapour permeability
- Resistant to all common environmental influences
- Resistant to mechanical influences
- Resistant to micro-organisms
- Resistant to root penetration
- Hot-air weldable
- No open flame equipment required

APPROVALS / STANDARDS

- Polymeric sheets for roof waterproofing with CE mark according to EN 13956
- Quality Management System in accordance to EN ISO 9001/ 14001
- Certified Singapore Green Building Product - SGBC Green Marks 4 Ticks: Leader

PRODUCT INFORMATION

Chemical Base	Polyvinyl Chloride (PVC)	
Packaging	Standard rolls are wrapped individually in a blue PE-foil.	
	Packing unit	Refer to price list
	Roll length	20.00 m
	Roll width	2.00 m
	Roll weight	78.00 kg
	Refer to current price list for packaging variations.	
Appearance / Colour	Surface	Matt
	Colours	
	Top Surface	Orange
	Bottom surface	Dark grey

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. 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.	
Product Declaration	EN 13956: Polymeric sheets for roof waterproofing	
Visible Defects	Pass	(EN 1850-2)
Length	20 m (-0 / +5 %)	(EN 1848-2)
Width	2 m (-0.5 / +1 %)	(EN 1848-2)
Effective Thickness	1.5 mm (-5 / +10 %)	(EN 1849-2)
Straightness	≤ 30 mm	(EN 1848-2)
Flatness	≤ 10 mm	(EN 1848-2)
Mass per Unit Area	1.95 kg/m ² (-5 % / +10 %)	(EN 1849-2)

TECHNICAL INFORMATION

Resistance to Impact	<u>Hard substrate</u>	<u>≥ 500 mm</u>	(EN 12691)
	<u>Soft substrate</u>	<u>≥ 1000 mm</u>	
Resistance to Static Load	<u>Soft substrate</u>	<u>≥ 20 kg</u>	(EN 12730)
	<u>Rigid substrate</u>	<u>≥ 20 kg</u>	
Resistance to Root Penetration	Pass		(EN 13948)
	Pass		(FLL)
Tensile Strength	<u>Longitudinal (md)¹⁾</u>	<u>≥ 8.5 N/mm²</u>	(EN 12311-2)
	<u>Transversal (cmd)²⁾</u>	<u>≥ 8.5 N/mm²</u>	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Elongation	<u>Longitudinal (md)¹⁾</u>	<u>≥ 180 %</u>	(EN 12311-2)
	<u>Transversal (cmd)²⁾</u>	<u>≥ 180 %</u>	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Dimensional Stability	<u>Longitudinal (md)¹⁾</u>	<u>B ≤ 0.2 %</u>	(EN 1107-2)
	<u>Transversal (cmd)²⁾</u>	<u>D ≤ 0.2 %</u>	
¹⁾ md = machine direction ²⁾ cmd = cross machine direction			
Joint Shear Resistance	≥ 500 N/50 mm		(EN 12317-2)
Foldability at Low Temperature	≤ -25 °C		(EN 495-5)
Reaction to Fire	Class E	(EN ISO 11925-2, classification to EN 13501-1)	
Effect of Liquid Chemicals, Including Water	On request		(EN 1928)
Resistance to UV Exposure	Not resistant for permanent exposure to UV irradiation.		

Water Vapour Transimission $\mu = 15\ 000$ (EN 1931)

Water Tightness Pass (EN 1928)

APPLICATION INFORMATION

Ambient Air Temperature -20 °C min. / +60 °C max.

Substrate Temperature -30 °C min. / +60 °C max.

SYSTEM INFORMATION

System Structure	<p>The following products must be considered for use depending on roof design:</p> <ul style="list-style-type: none">▪ Sarnafil® G 410-15 Sheet for detailing▪ Sarnafil® Metal Sheet▪ Sarnabar or S-U Bar▪ S-Welding Cord▪ Sarna Seam Cleaner▪ Sarna Cleaner▪ S-Felt <p>Ancillary products: wide range of accessories is available e.g. prefabricated parts, roof drains, scuppers, protection sheets and separation layers.</p>
Compatibility	<p>Not compatible in direct contact with bitumen, tar, fat, oil, solvent containing materials and other plastic materials, e.g. Expanded Polystyrene (EPS), Extruded Polystyrene (XPS), Polyurethane (PUR), Polyisocyanurate (PIR) or Phenolic Foam (PF). Use an approved separation layer to completely separate Sarnafil G 476 from any incompatible materials.</p>

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

IMPORTANT CONSIDERATIONS

Installation work must only be carried out by Sika® trained and approved contractors experienced in this type of application.

- Ensure Sarnafil® G 476-15 (CN_GB) 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 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

ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working (welding) in closed rooms.

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

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 welding : Leister Triac
- Automatic welding : Sarnamatic 681

SUBSTRATE QUALITY

- The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings.
- The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc.
- Sarnafil® G 476-15 (CN_GB) must be separated from any incompatible substrates / materials by an effective separation layer to prevent accelerated ageing.
- The supporting layer must be compatible to 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.

Fully Adhered System

- Sarnafil G 476 is lay flat without creases and fully adhered/ bonded on roof surfaces and junction areas by suitable Sarnacol adhesive (See Sarnacol PDS).
- For main roof areas, overlap seams of 80 mm are hot air welded by automatic hot air welding machines, wherever possible, with controlled hot air temperature to ensure a good and continuous fused seam weld.
- For detailing and corner areas, overlap seams are welded manually with hand held hot air welding gun and pressure rollers, best by skilled welders.
- The roof perimeter has to be fixed mechanically with Sarnabar/ S-U bar to keep the membrane in place.
- It is then covered with ballast or a protection layer immediately after laying and seam welding.

Sika (Singapore) Pte Ltd.

28 Tuas South Ave 8

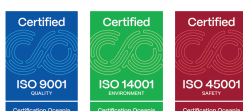
Singapore 637648

Phone: +65 6861 0632

Fax: +65 6862 3915

Email: sales@sg.sika.com

www.sika.com.sg



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Balconies, terraces and plaza decks

- A protective sheet of Sarnafil® Protective Sheet or S-Felt Type GK must be installed on top of the Sarnafil® G 476-15 (CN_GB) membrane.
- The ballasted protective layer (slabs, tiles, etc) must be installed on top of a drainage layer (chippings, gravel, elevated beds or similar).

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 20 mm.

Testing overlap seams

The seams must be mechanically tested with screwdriver (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.

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