

PRODUCT DATA SHEET

Sarnafil® S 327-15 EL (CN_GB)

Polymeric membrane for roof waterproofing

DESCRIPTION

Sarnafil® S 327-15 EL (CN_GB) is a polyester reinforced, multi-layer, synthetic roof waterproofing membrane based on premium-quality polyvinyl chloride (PVC). Sarnafil® S 327-15 EL (CN_GB) has a unique lacquer coating applied to the top of the membrane to reduce staining from airborne dirt and pollutants.

USES

Waterproofing membrane for mechanically fastened, exposed flat roofs

CHARACTERISTICS / ADVANTAGES

- Outstanding resistance to weathering, including permanent UV irradiation
- Excellent weldability
- Excellent flexibility in cold temperatures
- High dimensional stability
- High tensile and tear strength
- High resistance to mechanical impact
- High water vapour permeability
- Reduced dirt pick-up due to lacquer coating
- Recyclable

APPROVALS / STANDARDS

Sarnafil® S 327-15 EL (CN_GB) is designed and manufactured to meet most international recognised standards.

- Polymeric PVC sheets for waterproofing according to GB12952, Type P.
- Polymeric sheets for roof waterproofing according to EN 13956.
- Polymeric sheets for roof waterproofing according to JIS A6008, certified by notified body CECN09001 and provided with the JIS-mark.
- FM certified
- Official quality approvals and agreement certificates and approvals.
- Monitoring and assessment by approved laboratories.

PRODUCT INFORMATION

Packaging	Sarnafil® S 327-15 EL (CN_GB) standard rolls are wrapped individually in a blue PE-foil.
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. 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.
Surface	Smooth
Top Surface	Light grey

Bottom Surface	Dark grey	
Length	20.0 m (≥ 99.5%)	(GB/T 328.7)
Width	2.0 m (≥ 99.5 %)	(GB/T 328.7)
Overall Thickness	1.5 mm (-5 % / +10 %)	(GB/T 328.5)
Unit Weight	Approx. 78 kg/roll.	

SYSTEM INFORMATION

System Structure	A wide range of tested and approved Sika accessories for the single ply roofing system is available: vapour retarder, thermal insulation, separation layer, fasteners, detailing membrane, contact adhesive, perimeter bars, welding cords, termination bars, sealants, prefabricated parts (corners, roof drains, scuppers, walkway pads, lightning conductor clips etc.) etc.	
Compatibility	Sarnafil® S 327-15 EL (CN_GB) is not compatible with direct contact to other plastics, e.g. EPS, XPS, PUR, PIR or PF. Sarnafil® S 327-15 EL (CN_GB) is not resistant to tar, bitumen, oil and solvent containing materials. Use an approved separation layer to completely separate Sarnafil® S 327-15 EL (CN_GB) from any incompatible substrate.	

TECHNICAL INFORMATION

Resistance to Impact	0.5 kg·m	Watertight	(GB/T 20624.2)
Resistance to Static Load	20 kg	Watertight	(GB/T 328.25)
Tensile Strength	≥ 250 N/cm		(GB/T 328.9)
Elongation at break	≥ 15 %		(GB/T 328.9)
Tear Strength	≥ 250 N		(GB/T 328.19)
Joint Peel Resistance	≥ 3.0 N/mm		(GB/T 328.21)
Dimensional Stability	≤ 0.5 %		(GB/T 328.13)
Foldability at Low Temperature	-25 °C	No crack	(GB/T 328.15)
Water Absorption	Wet weight	≤ 4 %	(GB 12952)
	Dry weight	≥ -0.4 %	
Water Tightness	0.3 MPa, 2 hours	Watertight	(GB/T328.10)
Chemical Resistance	Breaking strength retention	≥ 85%	(GB 12952)
	Elongation at break	≥ 80%	
	Foldability at low temp.	-20 °C No crack	
Retention of Properties after Heat Ageing	Breaking strength	≥ 85%	(GB/T 18244)
	Elongation at break	≥ 80%	
	Foldability at low temp.	-20 °C No crack	
Artificial Ageing	Breaking strength	≥ 85%	(GB 12952)
	Elongation at break	≥ 80%	
	Foldability at low temp.	-20 °C No crack	

APPLICATION INFORMATION

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

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

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 INFORMATION

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® S 327-15 EL (CN_GB) is prevented from direct contact with incompatible materials (refer to compatibility section).
- Sarnafil® S 327-15 EL (CN_GB) must be installed by loose laying and without stretching or installing under tension.
- The use of Sarnafil® S 327-15 EL (CN_GB) 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.

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 the 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

SUBSTRATE QUALITY

The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc.

Sarnafil® S 327-15 EL (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 METHOD / TOOLS

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:

Leister Triac PID (manual welding) , and, Sarnamatic 681 (automatic welding)

Fixing method- General

The waterproofing membrane is installed by loose laying (without stretching membrane or installing under tension) with mechanical fastening in seam overlaps or independent from overlaps. Overlap seams are hot welded using specialised hot air equipment.

Fixing method-Spot fastening (Sarnafast®)

Sarnafil® S 327-15 EL (CN_GB) must always be installed at right angles to the deck direction. Sarnafil® S 327-15 EL (CN_GB) is fixed by means of the Sarnafast® fasteners and barbed washers/tubes along the marked line, 35 mm from the edge of the membrane. Sarnafil® S 327-15 EL (CN_GB) is overlapped by 120 mm. The spacing of the fasteners is in accordance with the project specific Sika calculations. At upstands and at all penetrations, the Sarnafil® S 327-15 EL (CN_GB) membrane must be secured with a Sarnabar®. The 4 mm diameter S-Welding Cord protects the Sarnafil® S 327-15 EL (CN_GB) roof covering against tearing and peeling off by wind uplift.

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 of equipment and the climatic conditions prior to welding.

Testing overlap seams

The seams must be mechanically tested with screw driver or steel needle to ensure the integrity/completion of the weld. Any imperfections must be rectified by hot air welding.

APPLICATION

Installation works must be carried out only by Sika instructed and approved roofing contractors.

Installation procedure:

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working

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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