

Spider P SA

Prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology



SPIDER P SA is a top-quality prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology, the innovative ELASTOMERIC-PLASTOMERIC (Plastomer-Polymer Bitumen) compound laminating system developed by Polyglass SpA. Featuring the FASTLap® system, the selvages on ADESO® membranes are protected with a non-stick silicone-coated polyester film, to be peeled off as the membrane is applied.

The exclusive SEALLap® polyurethane self-adhesive system further improves the bond along the side laps of overlapping membranes as they are applied. In addition, on mineral-surfaced versions, the end lap is designed to deliver an even tighter seal between overlapping membranes.

SPIDER P SA is a membrane produced to the standards set by NAT® technology, the production system for the control of polymer matrix ageing in bitumen membranes.

SPIDER P SA has a polyester nonwoven carrier, stabilized with glass strands parallel to the machine direction. The carrier gives good puncture resistance, dimensional stability, and tensile strength in all directions.

**Flexibility at low temperature
-10 °C**



PRODUCT COMPLIANT WITH EUROPEAN STANDARD



WATER VAPOUR TRANSMISSION AND DETERMINATION OF WATERTIGHTNESS



REACTION TO FIRE CERTIFICATION CLASS E



CERTIFICATION OF COMPLIANCE WITH BUILDING MATERIAL STANDARDS - SOUTH AFRICA



CERTIFICATION OF COMPLIANCE WITH BUILDING MATERIAL STANDARDS - NEW ZELAND

INTENDED USE

PRODUCT	EN 13707 ROOFS						EN 13969 FOUNDATIONS			EN 13859-1 TILE UNDERLAY	EN 13970 VAPOUR BARRIER	EN 14695 BRIDGES AND VIADUCTS
	SINGLE-PLY		MULTI-PLY				ROOT BARRIER	RISING DAMP	GROUNDWATER			
	EXPOSED	BALLASTED	EXPOSED		BALLASTED							
			BASE LAYER	CAP SHEET	BASE LAYER	CAP SHEET						
SPIDER P SA 2 mm FR			•						•			
SPIDER P SA 3 mm FR			•		•				•			
SPIDER P SA 3,5 kg GR				•						•		
SPIDER P SA 4 kg GR				•						•		

SPIDER P SA can be applied as part of a MULTI-PLY ROOF, in EXPOSED waterproofing systems, as a BASE LAYER or CAP SHEET.

SPIDER P SA 3 mm, as indicated on the chart, can be applied as an UNDERLAY on insulating panels that are not heat resistant so that torch-on waterproofing bitumen membranes can be applied on top as a SINGLE-PLY solution.

In the smooth version (as indicated on the chart), **SPIDER P SA** is suitable for application on FOUNDATION walls to deal with RISING DAMP or percolating water, as part of a SINGLE- or MULTI-PLY system, or as an under-floor MOISTURE BARRIER.

SPIDER P SA, as indicated on the chart, can be applied as a TILE UNDERLAY.

Under no circumstances should roof tiles be applied directly on top of the bitumen membranes - with the aid of mortar, adhesives or expanding foam - as the tiles would not be sufficiently secured and the membranes would not provide the needed under tile ventilation.

FINISHES

POLYVAP P SA comes with a mono-silicone coated polyethylene backing film on its underside: this film is split in two lengthwise to make it easier to peel off as the membrane is applied. The upper surface can be finished with two options: polyethylene film or faced with slate chippings varying in size in a choice of colours.

The membrane versions finished with the polyethylene film must never be exposed to UV rays and can never be painted.

For further information on other available finishes, please contact the Polyglass SpA Sales Department.

Superior finishes



Polyethylene film



Chippings

Lower finishes



Mono-silicone coated polyethylene film

AVAILABLE COLOURS

Slate chippings in a choice of:



Grey



Green



Red



White



* Reflect White



* Super White (MHR)

* Highly reflective colours (Cool Roof).

Reflect White - SRI (Solar Reflectance Index) ASTM E 1980-11: 57%1; R: 48%; E: 94%.

Super White (MHR) - SRI (Solar Reflectance Index) ASTM E 1980-11: 85%1; R: 69%; E: 94%.

¹ Initial values according to ASTM, referring to new materials.

TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	
			SPIDER P SA	SPIDER P SA G
EN 1848-1	WIDTH	m	≥ 1	
EN 1848-1	LENGTH	m	≥ 15	≥ 10
EN 1849-1	THICKNESS	mm	2 (±0,2)	3 (±0,2)
EN 1849-1	AREA MASS	kg/m ²	NPD	
EN 1848-1	STRAIGHTNESS	mm/10 m	Meets the requirements	
EN 1928-B	WATERTIGHTNESS	kPa	Meets the requirements	
EN 1928	RESISTANCE TO WATER PENETRATION	Class	NPD	
EN 1931	WATER VAPOUR PROPERTIES μ	-	20000 (±20%)	
EN 13897	WATERTIGHTNESS AFTER STRETCHING AT LOW TEMPERATURE	kPa	NPD	
EN 13501-1	REACTION TO FIRE	Class	E	
EN 13501-5	EXTERNAL FIRE PERFORMANCE	Class	NPD	
EN 12039	ADHESION OF GRANULES	%	NPD	
EN 1850-1	VISIBLE DEFECTS	-	None	
EN 1107-1	DIMENSIONAL STABILITY	%	≤ 0,3	
EN 12316-1	PEEL RESISTANCE	N/50 mm	NPD	
EN 12317-1	SHEAR RESISTANCE			
	Longitudinal	N/50 mm	NPD	
	Transversal	N/50 mm	NPD	
EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 400	
EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	≥ 500	
EN 12730-A	RESISTANCE TO STATIC LOADING (SOFT SUPPORT)	kg	≥ 10	
EN 12730-B	RESISTANCE TO STATIC LOADING (RIGID SUPPORT)	kg	≥ 15	
EN 12310-1	RESISTANCE TO TEARING			
	Longitudinal	N	130 (±30%)	
	Transversal	N	130 (±30%)	
EN 12311-1	TENSILE STRENGTH			
	Longitudinal	N/50 mm	400 (±20%)	
	Transversal	N/50 mm	300 (±20%)	
	ELONGATION AT BREAK			
	Longitudinal	%	35 (±15)	
	Transversal	%	35 (±15)	
ASTM D 1000	PEELING	N/10 mm	≥ 20	
EN 1109	COLD FLEXIBILITY	°C	≤ -10	
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥ 100	
DURABILITY AFTER AGEING				
EN 1928-B - EN 1296	WATERTIGHTNES AGAINST ARTIFICIAL AGEING	kPa	Meets the requirements	
EN 1928-B - EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	Meets the requirements	
EN 1850-1 - EN 1297	ARTIFICIAL AGEING BY LONG TERM EXPOSURE TO THE COMBINATION OF UV RADIATION, ELEVATED TEMPERATURE AND WATER	-	Meets the requirements	
EN 1109 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (COLD FLEXIBILITY)	°C	NPD	
EN 1110 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C	≥ 90	
EN 12311-1 - EN 1296 EN 1267	TENSILE STRENGTH AFTER ARTIFICIAL AGEING THROUGH EXPOSURE LONG TERM TO THE COMBINATION OF UV RADIATION, HIGH TEMPERATURE AND WATER			
	Longitudinal	N/50 mm	±30% initial value	
	Transversal	N/50 mm	±30% initial value	
	ELONGATION AT BREAK AFTER ARTIFICIAL AGEING THROUGH EXPOSURE LONG TERM TO THE COMBINATION OF UV RADIATION, HIGH TEMPERATURE AND WATER			
	Longitudinal	%	-30% initial value	
	Transversal	%	-30% initial value	
ADDITIONAL DATA				
EN 13583:2012	DETERMINATION OF HAIL RESISTANCE	m/s	NPD	
-	DETERMINATION OF HAIL RESISTANCE - VKP APIB N° 09	Class	NPD	
SP METHOD 3873	PERMEABILITY TO RADON GAS	-	NPD	
SP METHOD 3873	TRANSMISSIBILITY TO RADON GAS	-	NPD	
BR 2012	PERMEATION TO METHANE GAS	-	NPD	
CEI 62631-3-1:2016	VOLUMETRIC RESISTIVITY	Ωcm	NPD	
EN 13948	RESISTANCE TO ROOT PENETRATION	-	NPD	
-	THERMAL CONDUCTIVITY	W/mK	0,20	
-	THERMAL CAPACITY	kJ/K	1,20	

PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
SPIDER P SA F R	2	-	1x15
SPIDER P SA F R*	3	-	1x10
SPIDER P SA G R	-	3,5	1x10
SPIDER P SA G R*	-	4	1x10

* Without box

Given the variety of situations in which the product can be used, the diversity of substrates and its multiple possible uses within COMPLEX WATERPROOFING BUILT-UP SYSTEMS, Polyglass SpA cannot be held responsible for the results achieved in terms of either function or looks. Rev. 2-20

Spider P SA

STORAGE

Rolls are packed in cardboard boxes standing upright on shrink-wrapped pallets.

Be careful not to stack pallets on top of each other in order not to irreversibly squash the membrane out of shape, which can compromise the material's correct installation.

Keep the product in a dry place, out of direct sunlight, protected from heat sources and freezing temperatures, storing the material on wooden pallets raised off the ground until you are ready to start application.

Always keep the rolls of membrane in their original packaging where they are being stored, even when the roll is not entirely used.

Make sure you never leave rolls of membrane lying on their side as this could compromise their application.

Contact with solvents or organic liquids can damage the product.

INSTALLATION TIPS

The surface of any substrate due to be covered with **SPIDER P SA** must be flat, dry, clean, and free of all foreign matter or loose material.

Excessive moisture levels on the surfaces to be waterproofed can result in membranes coming off.

Before applying the membranes, coat the substrate with an adhesion-promoting primer: either a solvent-based product such as POLYPRIMER HP or water-based product such as IDROPRIMER. On wooden substrates, it is always advisable to use a water-based primer.

SPIDER P SA is cold applied, without the use of naked flames (propane torch), by peeling off the mono-silicone coated backing film on its underside.

The product must be applied with temperatures higher than 10 °C and, whatever the case, only when weather conditions are favourable.

Membranes installed as the first waterproofing layer should be applied directly over insulating panels or substrate (wood, concrete screed) coated with an adhesion-promoting primer.

Instead of being topped with a second self-adhesive membrane, **SPIDER P SA** also offers the option of applying torch-on waterproofing bitumen membranes over the top.

On pitched roofs, the roll must be positioned so that it follows the direction of the slope (at a right angle to the ridge and/or eaves line).

At the top, along the ridge lines, the membrane must fold over onto the opposite side of the pitched roof by approx. 20-30 cm and be fixed mechanically along its end.

Membranes with a smooth surface finish cannot be protected with protective and/or reflective paints.

For further details on application, please refer to the installation instructions contained in the ADES® Application Manual, or contact the Polyglass SpA Technical Support Department.

SAFETY RULES

The polymer bitumen membranes, manufactured by Polyglass SpA, are made from bitumen distilled from crude oil and do not contain tar (derived from coal), asbestos or chlorine.

LEGAL RULES

The values given are approximate average data relating to the current product range and may be edited or updated by Polyglass SpA at any time without any prior notice.

As the Customer or User, it is your responsibility to check that the technical data sheet you have is valid for the batch of product in question and, whatever the case, that you have the latest version issued.

Always refer to the latest up-to-date version of the Technical Data Sheet and relevant Declaration of Performance, both of which you can find on our site www.polyglass.com.

As the End User, it is your responsibility to check that the product is fit for its intended purpose.

PRODUCT FOR PROFESSIONAL USE.



POLYGLASS SPA

Registered Office: V.le Jenner, 4 - 20159 Milano - Italy - Administrative Headquarters and Production Facility: Via dell'Artigianato, 34 - 31047 Ponte di Piave (TV) - Italy
Phone +39 04227547 - Fax +39 0422854118 - Email: info@polyglass.it - www.polyglass.com

REV. 2-20

50022 - 07/20