

Elastoflex SA P

Prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology



ELASTOFLEX SA P is a top-quality prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology, the innovative ELASTOMERIC (SBS) compound laminating system.

In the ADESO® membranes, the exclusive SEALap® polyurethane self-adhesive system further improves the bond along the side laps of overlapping membranes as they are applied.

In the mineral versions, the ADESO® membranes feature the FASTLap® system, the head selvage free from slate chippings, which allows a faster and easier application and a better sealing of the overlaps.

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

ELASTOFLEX SA P 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
-20 °C

CE 1370 PRODUCT COMPLIANT WITH EUROPEAN STANDARD

ITC DETERMINATION OF WATERTIGHTNESS

EM REACTION TO FIRE CERTIFICATION CLASS E

INTENDED USE

PRODUCT	EN 13707 ROOFS						EN 13969 FOUNDATIONS			EN 13859-1 UNDERLAY FOR DISCONTINUOUS ROOFING	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						
ELASTOFLEX SA P 2 mm FR			•					•				
ELASTOFLEX SA P 2 mm SR			•					•				
ELASTOFLEX SA P 3 mm FR			•					•				
ELASTOFLEX SA P 3,5 kg GR				•					•			

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

In the smooth version (as indicated on the chart), **ELASTOFLEX SA P** 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.

ELASTOFLEX SA P can be applied as UNDERLAY FOR DISCONTINUOUS ROOFING.

Under no circumstances should roofing tiles be applied directly on top of the bitumen membranes by mortar, adhesives or expanding foam; in fact these would not permit a secure fixing system, as well as the necessary ventilated space under the roofing tiles.

FINISHES

ELASTOFLEX SA P 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: polyethylene film, sand or faced with slate chippings varying in size in a choice of colours. The mineral-surfaced version may undergo variations in colour tones due to time and shelf life. It must be considered a natural phenomenon that, after application, the exposure to atmospheric agents will tend to uniform the colour within a few months.

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.

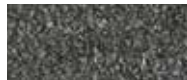
Top finishes



Polyethylene film (F)



Sand (S)



Chippings (G)

Bottom finishes



Mono-silicone coated polyethylene film (R)

AVAILABLE COLOURS

Slate chippings in a choice of:



Grey



Black



Tweed

TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	
			ELASTOFLEX SA P	ELASTOFLEX SA P G
EN 1848-1	WIDTH	m	≥ 1	≥ 1
EN 1848-1	LENGTH	m	15 (±1%)	10 (±1%)
EN 1849-1	THICKNESS	mm	2 (±0,2)	3 (±0,2)
EN 1849-1	AREA MASS	kg/m ²	NPD	3,5 (±10%)
EN 1848-1	STRAIGHTNESS	mm/10 m	Meets the requirements	Meets the requirements
EN 1928-B	WATERTIGHTNESS	kPa	Meets the requirements	Meets the requirements
EN 1928	RESISTANCE TO WATER PENETRATION	Class	NPD	W1
EN 1931	WATER VAPOUR RESISTANCE FACTOR μ	-	20000 (±20%)	20000 (±20%)
EN 13897	WATERTIGHTNESS AFTER STRETCHING AT LOW TEMPERATURE	kPa	NPD	NPD
EN 13501-1	REACTION TO FIRE	Class	E	E
EN 13501-5	EXTERNAL FIRE PERFORMANCE	Class	NPD	NPD
EN 12039	ADHESION OF GRANULES	%	NPD	≤ 30
EN 1850-1	VISIBLE DEFECTS	-	None	None
EN 1107-1	DIMENSIONAL STABILITY	%	≤ 0,3	≤ 0,3
EN 12316-1	PEEL RESISTANCE	N/50 mm	NPD	NPD
EN 12317-1	SHEAR RESISTANCE			
	Longitudinal	N/50 mm	NPD	NPD
EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 400	≥ 400
EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	≥ 500	≥ 500
EN 12730-A	RESISTANCE TO STATIC LOADING (SOFT SUPPORT)	kg	≥ 10	≥ 10
EN 12730-B	RESISTANCE TO STATIC LOADING (RIGID SUPPORT)	kg	≥ 15	≥ 15
EN 12310-1	RESISTANCE TO TEARING			
	Longitudinal	N	150 (±30%)	150 (±30%)
EN 12311-1	TENSILE STRENGTH			
	Longitudinal	N/50 mm	400 (±20%)	400 (±20%)
EN 12311-1	ELONGATION AT BREAK			
	Longitudinal	%	35 (±15)	35 (±15)
ASTM D 1000	PEELING	N/10 mm	≥ 20	≥ 20
EN 1109	COLD FLEXIBILITY	°C	≤ -20	≤ -20
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥ 100	≥ 100
DURABILITY AFTER AGEING				
EN 1928-B - EN 1296	WATERTIGHTNES AGAINST ARTIFICIAL AGEING	kPa	Meets the requirements	Meets the requirements
EN 1928-B - EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	Meets the requirements	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	Meets the requirements
EN 1109 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (COLD FLEXIBILITY)	°C	NPD	NPD
EN 1110 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C	≥ 90	≥ 90
ADDITIONAL DATA				
EN 13583:2012	DETERMINATION OF HAIL RESISTANCE	m/s	NPD	NPD
-	DETERMINATION OF HAIL RESISTANCE - VKP APIB N° 09	Class	NPD	NPD
SP METHOD 3873	PERMEABILITY TO RADON GAS	-	NPD	NPD
SP METHOD 3873	TRANSMITTANCE TO RADON GAS	-	NPD	NPD
BR 2012	TRANSMITTANCE TO METHANE GAS	-	NPD	NPD
IEC 62631-3-1:2016	VOLUMETRIC RESISTIVITY	Ωcm	NPD	NPD
EN 13948	RESISTANCE TO ROOT PENETRATION	-	NPD	NPD
-	THERMAL CONDUCTIVITY	W/mK	0,20	0,20
-	THERMAL CAPACITY	kJ/K	1,20	1,20

PACKAGING

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

STORAGE

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

Use always a weight distributing element if you are forced to stack the pallets one on top of each other. A solid distributing element will avoid damages to the rolls underneath. 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.

Never store or leave rolls of membrane horizontal position this could compromise the application.

Contact with solvents or organic liquids can damage the product.

Elastoflex SA P

INSTALLATION TIPS

The surface of any substrate due to be covered with **ELASTOFLEX SA P** 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 solvent-based products such as POLYPRIMER and POLYPRIMER HP or water-based product such as IDROPRIMER. On wooden substrates, it is always advisable to use a water-based primer.

ELASTOFLEX SA P 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, **ELASTOFLEX SA P** 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.

Mineral-surfaced membranes are naturally subjected to lose slate granules during handling and installation operations. It is also advisable to pay attention to the works following the installation of the product.

For further details on application, please refer to the installation instructions contained in the ADES0® 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 Customer or User, it is your responsibility to check that the technical data sheet you have is valid for the batch of product in your hands 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.

