

Elastoflex S6 P

Elastomeric polymer distilled bitumen waterproofing membrane



ELASTOFLEX S6 P is a prefabricated ELASTOMERIC waterproofing membrane offering excellent performance.

Made from a special modified distilled bitumen compound with a high percentage of elastomeric SBS thermoplastic rubbers (Styrene-Butadiene-Styrene).

ELASTOFLEX S6 P is a membrane produced to the standards set by NAT® technology, the innovative production system for the control of polymer matrix ageing in bitumen membranes.

ELASTOFLEX S6 P has a spunbond polyester nonwoven carrier stabilized with glass strands parallel to the machine direction. The carrier gives good tensile strength (in all directions) and puncture resistance, with excellent dimensional stability.

Flexibility at
low temperature
-20 °C



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 S6 P 4 mm F F		•	•		•	•						
ELASTOFLEX S6 P 3 mm S F			•		•							
ELASTOFLEX S6 P 4 mm S F		•	•		•	•						
ELASTOFLEX S6 P 4,5 kg G F				•								
ELASTOFLEX S6 P 4 mm* + G F	•			•								

* Thickness on the selvedge.

ELASTOFLEX S6 P can be applied as part of a MULTI-PLY ROOF, in EXPOSED or BALLASTED waterproofing systems. The membrane can be applied as a BASE LAYER or CAP SHEET. NOTE: In exposed waterproofing systems on thermally insulated roofs (warm roof), ELASTOFLEX S6 P cannot be used as a BASE LAYER.

FINISHES

The ELASTOFLEX S6 P membrane comes in a standard version with the upper side protected with a polyethylene film or sand, while the mineral-surfaced version is faced with natural or coloured ceramic-coated slate chippings varying in size. 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 underside comes with a standard protective finish consisting in a heat-fusible polyethylene film.

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



Heat-fusible polyethylene film (F)

AVAILABLE COLOURS

Slate chippings in a choice of:



Grey



Green



Red



White



* White Reflect Plus

* Highly reflective colours (Cool Roof).

White Reflect Plus - SRI (Solar Reflectance Index): 79,8% <SRI< 82,2%; Ri: 67%; E: 88%.

¹ Depending on the wind speed. Initial values according to ASTM, referring to new materials.

TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	
			ELASTOFLEX S6 P	ELASTOFLEX S6 P G
EN 1848-1	WIDTH	m	≥ 1	≥ 1
EN 1848-1	LENGTH	m	10 (±1%)	8 (±1%) 5 (±1%)
EN 1849-1	THICKNESS	mm	3 (±0,2) 4 (±0,2)	4 (±0,2)* NPD
EN 1849-1	AREA MASS	kg/m ²	NPD	NPD 4,5 (±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 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 Transversal	N/50 mm N/50 mm	650 (±20%) 400 (±20%)	650 (±20%) 400 (±20%)
EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 900	≥ 900
EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	≥ 1000	≥ 1000
EN 12730-A	RESISTANCE TO STATIC LOADING (SOFT SUPPORT)	kg	≥ 15	≥ 15
EN 12730-B	RESISTANCE TO STATIC LOADING (RIGID SUPPORT)	kg	≥ 20	≥ 20
EN 12310-1	RESISTANCE TO TEARING Longitudinal Transversal	N N	180 (±30%) 200 (±30%)	180 (±30%) 200 (±30%)
EN 12311-1	TENSILE STRENGTH Longitudinal Transversal ELONGATION AT BREAK Longitudinal Transversal	N/50 mm N/50 mm % %	750 (±20%) 500 (±20%) 45 (±15) 45 (±15)	750 (±20%) 500 (±20%) 45 (±15) 45 (±15)
ASTM D 1000	PEELING	N/10 mm	NPD	NPD
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	WATERTIGHTNESS AGAINST ARTIFICIAL AGEING	kPa	NPD	NPD
EN 1928-B - EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	NPD	NPD
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	≤ -10	≤ -10
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

* Thickness on the selvedge.

PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
ELASTOFLEX S6 P F F	4	-	1x10
ELASTOFLEX S6 P S F	3	-	1x10
ELASTOFLEX S6 P S F	4	-	1x10
ELASTOFLEX S6 P G F	-	4,5	1x5
ELASTOFLEX S6 P + G F	4*	-	1x8

* Thickness on the selvedge.

STORAGE

The product comes in rolls and is packed 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.

Contact with solvents or organic liquids can damage the product.

Keep the product in a dry place, out of direct sunlight, protected from heat sources and freezing temperatures.

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INSTALLATION TIPS

The surface of any substrate due to be covered with **ELASTOFLEX S6 P** must be flat, dry, clean, and free of all foreign matter or loose material

When laying over old waterproofing build-ups (refurbishment work), the old system and its individual layers must be checked to ensure they are still properly adhered to the substrate.

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

If applied on top of insulating layers, said insulation must always be applied on top of a suitable vapour barrier; the individual insulation board must be glued on or fixed mechanically to the substrate.

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.

Fully-adhered application is generally the norm and involves lightly torching with a propane gas torch, following the instructions given on the intended use chart. During the membrane's installation, be careful not to puncture the surface in any way that is likely to damage the membrane's surface (footwear with spikes or studs, leaving anything pointed or with a small surface area sitting on top, sharp objects, etc.).

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 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.

