

Elastoflex S6 AF P

Elastomeric polymer distilled bitumen waterproofing membrane

B_{ROOF(t1)} - B_{ROOF(t2)}



ELASTOFLEX S6 AF 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 AF 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 AF P is B_{ROOF(t1)} and B_{ROOF(t2)} certified to the requirements of the external fire performance standard EN 13501-5.

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

Flexibility at low temperature
-20 °C

PRODUCT COMPLIANT WITH EUROPEAN STANDARD

B_{ROOF(t1)} EXTERNAL FIRE PERFORMANCE CERTIFICATION

B_{ROOF(t2)} EXTERNAL FIRE PERFORMANCE CERTIFICATION

B_{ROOF(t2)} EXTERNAL FIRE PERFORMANCE CERTIFICATION

PRODUCT STANDARDS OF CONSTRUCTION CERTIFICATION (NORWAY)

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 AF P 4,5 kg G F				•								
ELASTOFLEX S6 AF P 5 kg G F	•			•								
ELASTOFLEX S6 AF P 5,5 kg G F	•			•								

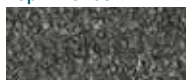
ELASTOFLEX S6 AF P can be applied as part of a SINGLE-PLY or MULTI-PLY ROOF, in EXPOSED waterproofing systems. In a MULTI-PLY built-up roofing system, the membrane can be applied as a CAP SHEET only.

FINISHES

The ELASTOFLEX S6 AF P membrane comes in a standard version faced with natural or coloured ceramic-coated slate chippings varying in size.

The underside comes with a standard protective finish consisting in a heat-fusible polyethylene film. 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. For further information on other available finishes, please contact the Polyglass SpA Sales Department.

Top finishes



Chippings (G)

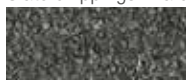
Bottom finishes



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 AF P G
EN 1848-1	WIDTH	m	≥ 1
EN 1848-1	LENGTH	m	10 (±1%)
EN 1849-1	THICKNESS	mm	NPD
EN 1849-1	AREA MASS	kg/m ²	4,5 (±10%) 5 (±10%) 5,5 (±10%)
EN 1848-1	STRAIGHTNESS	mm/10 m	Meets the requirements
EN 1928-B	WATERTIGHTNESS	kPa	Meets the requirements
EN 1931	WATER VAPOUR RESISTANCE FACTOR 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	B _{ROOF(t2)} - B _{ROOF(t1)} *
EN 12039	ADHESION OF GRANULES	%	≤ 30
EN 1850-1	VISIBLE DEFECTS	-	None
EN 1107-1	DIMENSIONAL STABILITY	%	≤ 0,3
EN 12316-1	PEEL RESISTANCE	N/50 mm	≥ 60
EN 12317-1	SHEAR RESISTANCE Longitudinal Transversal	N/50 mm N/50 mm	500 (±20%) 500 (±20%)
EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 1000
EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	≥ 1200
EN 12730-A	RESISTANCE TO STATIC LOADING (SOFT SUPPORT)	kg	≥ 20
EN 12730-B	RESISTANCE TO STATIC LOADING (RIGID SUPPORT)	kg	≥ 30
EN 12310-1	RESISTANCE TO TEARING Longitudinal Transversal	N N	200 (±30%) 200 (±30%)
EN 12311-1	TENSILE STRENGTH Longitudinal Transversal ELONGATION AT BREAK Longitudinal Transversal	N/50 mm N/50 mm % %	900 (±20%) 750 (±20%) 45 (±15) 45 (±15)
ASTM D 1000	PEELING	N/10 mm	NPD
EN 1109	COLD FLEXIBILITY	°C	≤ -20
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥ 110
DURABILITY AFTER AGEING			
EN 1928-B - EN 1296	WATERTIGHTNESS AGAINST ARTIFICIAL AGEING	kPa	NPD
EN 1928-B - EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	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
EN 1109 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (COLD FLEXIBILITY)	°C	≤ -15
EN 1110 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C	≥ 100
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	TRANSMITTANCE TO RADON GAS	-	NPD
BR 2012	TRANSMITTANCE TO METHANE GAS	-	NPD
IEC 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

* Classification valid for the tested stratigraphies, including all possible extended applications arriving from CEN/TS 16459:2019.

PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
ELASTOFLEX S6 AF P G F	-	4,5	1x8
ELASTOFLEX S6 AF P G F	-	5	1x8
ELASTOFLEX S6 AF P G F	-	5,5	1x8

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.

INSTALLATION TIPS

The surface of any substrate due to be covered with **ELASTOFLEX S6 AF 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.

In exposed waterproofing systems on thermally insulated roofs (warm roof), the correct application of "Membrana SBS" as a BASE LAYER, must be evaluated in accordance with local standards and practice guidelines in relation to the different types of insulating boards.

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.

