Esterflex SBS P

Elastomeric polymer distilled bitumen waterproofing membrane

ESTERFLEX SBS 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).
ESTERFLEX SBS 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.
ESTERFLEX SBS P has a spunbond polyester nonwoven carrier stabilized with glass strands parallel to the machine direction. The carrier gives tensile strength in all directions, as well as puncture resistance, with excellent dimensional stability.

Flexibility at low temperature
-20 °C

CE 1370 PRODUCT COMPLIANT WITH EUROPEAN STANDARD

INTENDED USE

PRODUCT	EN 13707 ROOFS							EN 13969 FOUNDATIONS		EN 13859-1 UNDERLAY FOR DISCONTINOUS ROOFING	EN 13970 VAPOUR BARRIER	EN 14695 BRIDGES AND VIADUCTS
	SINGLE-PLY		MULTI-PLY									
	EXPOSED	BALLASTED	EXPOSED		BALLASTED		ROOT BARRIER	RISING DAMP	GROUNDWATER			
			BASE LAYER	CAP SHEET	BASE LAYER	CAP SHEET						
ESTERFLEX SBS P 4 mm F S			•		•	•		•				
ESTERFLEX SBS P 2,2 kg PP S			•		•							
ESTERFLEX SBS P 4,5 kg G F				•								
ESTERFLEX SBS P 5 kg G F				•								

ESTERFLEX SBS 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.
In the smooth version (as indicated on the chart), **ESTERFLEX SBS 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.

FINISHES

The **ESTERFLEX SBS P** membrane comes in a standard version with the upper side protected with a polyethylene film, 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.

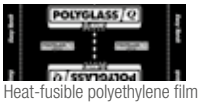
Top finishes


Polyethylene film (**F**)


Texturized PP fabric (**PP**)


Chippings (**G**)

Bottom finishes



Heat-fusible polyethylene film (**F**)

AVAILABLE COLOURS

Slate chippings in a choice of:


Grey


Black


Tweed

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TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES			
			ESTERFLEX SBS P		ESTERFLEX SBS P G	
EN 1848-1	WIDTH	m	≥ 1		≥ 1	
EN 1848-1	LENGTH	m	8 (±1%)	15 (±1%)	8 (±1%)	
EN 1849-1	THICKNESS	mm	4 (±0,2)	-	NPD	
EN 1849-1	AREA MASS	kg/m²	-	2,2 (±10%)	4,5 (±10%)	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	NPD		NPD	
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	 NPD NPD		 NPD NPD	
EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 800		≥ 800	
EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	≥ 900		≥ 900	
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 Transversal	 N N	 150 (±30%) 170 (±30%)		 150 (±30%) 170 (±30%)	
EN 12311-1	TENSILE STRENGTH Longitudinal Transversal ELONGATION AT BREAK Longitudinal Transversal	 N/50 mm N/50 mm % %	 650 (±20%) 400 (±20%) 45 (±15) 45 (±15)		 650 (±20%) 400 (±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	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	-	NPD		NPD	
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/m²	DIMENSIONS m
ESTERFLEX SBS P S F	4	-	1x8
ESTERFLEX SBS P PP F	-	2,2	1x15
ESTERFLEX SBS P G F	-	4,5	1x8
ESTERFLEX SBS P G F	-	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

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The surface of any substrate due to be covered with **ESTERFLEX SBS 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 laid on top of a suitable vapour barrier; the individual insulation board must be glued on or fixed mechanically to the substrate.
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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 responsability 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.

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