

Flexo S6 P

Elastomeric polymer distilled bitumen waterproofing membrane



FLEXO 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).

FLEXO 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.

FLEXO S6 P has a polyester nonwoven carrier stabilized with glass strands parallel to the machine direction. The carrier gives tensile strength in all directions, as well as good puncture resistance and dimensional stability.

**Flexibility at low temperature
-20 °C**

CE PRODUCT COMPLIANT WITH EUROPEAN STANDARD
1370



REACTION TO FIRE CERTIFICATION CLASS E



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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						
FLEXO S6 P 3 mm FF			•		•						•	
FLEXO S6 P 4 mm FF			•		•				•		•	
FLEXO S6 P 4 mm PP F			•		•	•			•		•	
FLEXO S6 P 4 kg GF				•								
FLEXO S6 P 4,5 kg GF				•								

FLEXO 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. In the case of BALLASTED systems, the minimum thickness of the waterproofing layer must be 7 mm (4 mm + 3 mm).

NOTE: In exposed waterproofing systems on thermally insulated roofs (warm roof), **FLEXO S6 P** cannot be used as a BASE LAYER.

In the smooth version (as indicated on the chart), **FLEXO S6** 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.

FLEXO S6 is a VAPOUR DIFFUSION CONTROL LAYER designed for use under insulating material to ensure it has a long service life. The right VAPOUR DIFFUSION CONTROL LAYER for the job must be determined based on the existing roof build-up, checking for condensation formation (with the aid of a Glaser diagram).

FINISHES

The **FLEXO S6 P** membrane comes in a standard version with the upper side protected a glossy polypropylene film or with texturized PP fabric, while the mineral-surfaced version is 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.

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

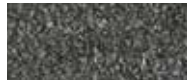
Superior finishes



Glossy polypropylene film



Texturized PP fabric



Chippings

Lower finishes



Heat-fusible 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	
			FLEXO S6 P	FLEXO S6 P G
EN 1848-1	WIDTH	m	≥ 1	≥ 1
EN 1848-1	LENGTH	m	≥ 10 - > 8	≥ 10
EN 1849-1	THICKNESS	mm	3 (±0,2)	4 (±0,2)
EN 1849-1	AREA MASS	kg/m ²	NPD	4 (±10%) 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 PROPERTIES μ	-	106000 (±20%)	106000 (±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	NPD	NPD
		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 Transversal	N	150 (±30%)	150 (±30%)
		N	150 (±30%)	150 (±30%)
EN 12311-1	TENSILE STRENGTH Longitudinal Transversal	N/50 mm	400 (±20%)	400 (±20%)
		N/50 mm	300 (±20%)	300 (±20%)
	ELONGATION AT BREAK Longitudinal Transversal	%	35 (±15)	35 (±15)
		%	35 (±15)	35 (±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 1931 - EN 1296	WATER VAPOUR TRANSMISSION AFTER THERMAL AGEING μ	-	± 50% initial value	± 50% initial value
EN 1931 - EN 1847	WATER VAPOUR TRANSMISSION AFTER EXPOSURE TO CHEMICAL AGENTS μ	-	± 50% initial value	± 50% initial value
EN 1928-B - EN 1296	WATERTIGHTNESS 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	TRANSMISSIBILITY TO RADON GAS	-	NPD	NPD
BR 2012	PERMEATION TO METHANE GAS	-	NPD	NPD
CEI 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
FLEXO S6 P F F	3	-	1x10 - 1x8
FLEXO S6 P F F	4	-	1x10 - 1x8
FLEXO S6 P PP F	4	-	1x10 - 1x8
FLEXO S6 P G F	-	4	1x10
FLEXO S6 P G F	-	4,5	1x10

STORAGE

The product comes in rolls and is packed upright on shrink-wrapped pallets. Be careful not to stack pallets on top of each other so as not to irreversibly squash the membrane out of shape, which can compromise the material's correct installation. 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 **FLEXO 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 a solvent-based product such as 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.

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 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.



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