

Adesoguard SA

Prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology



ADESOGUARD SA is a top-quality prefabricated SELF-ADHESIVE bitumen membrane produced using ADESO® technology, the innovative ELASTOMERIC (SBS) compound laminating system developed by Polyglass SpA.

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

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

ADESOGUARD SA 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.

ADESOGUARD SA assures good dielectric and resistive properties (Volume Resistivity $7.17E^{+14} \Omega\text{cm}$); it can be used to isolate structures from possible forms of "stray currents" in the ground near electric rail and tram lines. The special type of compound ensures remarkable characteristics of low temperature flexibility and due to its waterproof properties this membrane does not absorb humidity and its electrical resistance remains unaltered in time.

ADESOGUARD SA also works as an efficient barrier against Radon gases.

**Flexibility at
low temperature
-25 °C**

CE PRODUCT COMPLIANT
WITH EUROPEAN STANDARD
1370

RI SE DETERMINATION OF
RADON TRANSMITTANCE

eltherica DIELECTRIC STRENGTH
PROPERTIES

BRANZ Approved CERTIFICATION OF COMPLIANCE
WITH BUILDING MATERIAL
STANDARDS - NEW ZEALAND

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					
ADESOGUARD SA 1,5 mm H R										•		
ADESOGUARD SA 1,8 mm H R										•		

ADESOGUARD SA is a membrane specifically designed for SINGLE-PLY application on FOUNDATION walls to deal with RISING DAMP or percolating water, or as an under-floor MOISTURE BARRIER.

FINISHES

ADESOGUARD SA 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 is finished with a special, mechanically strong high-density polyethylene (HDPE) film.

Top finishes



High Density Polyethylene film (H)

Bottom finishes



Mono-silicone coated polyethylene film (R)

TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	
			ADESOGUARD SA	
EN 1848-1	WIDTH	m	≥ 1	
EN 1848-1	LENGTH	m	20 (±1%)	15 (±1%)
EN 1849-1	THICKNESS	mm	1,5 (±0,2)	1,8 (±0,2)
EN 1849-1	AREA MASS	kg/m ²	NPD	
EN 1848-1	STRAIGHTNESS	mm/10 m	Meets the requirements	
EN 1928-B	WATERTIGHTNESS	kPa	Meets the requirements	
EN 1931	WATER VAPOUR PROPERTIES μ	-	20000 (±20%)	
EN 13897	WATERTIGHTNESS AFTER STRETCHING AT LOW TEMPERATURE	kPa	NPD	
EN 13501-1	REACTION TO FIRE	Class	NPD	
EN 13501-5	EXTERNAL FIRE PERFORMANCE	Class	NPD	
EN 12039	ADHESION OF GRANULES	%	NPD	
EN 1850-1	VISIBLE DEFECTS	-	None	
EN 1107-1	DIMENSIONAL STABILITY	%	≤ 0,3	
EN 12316-1	PEEL RESISTANCE	N/50 mm	NPD	
EN 12317-1	SHEAR RESISTANCE Longitudinal Transversal	N/50 mm	400 (±20%)	
		N/50 mm	300 (±20%)	
EN 12691-A	RESISTANCE TO IMPACT (RIGID SUPPORT)	mm	≥ 300	
EN 12691-B	RESISTANCE TO IMPACT (SOFT SUPPORT)	mm	NPD	
EN 12730-A	RESISTANCE TO STATIC LOADING (SOFT SUPPORT)	kg	≥ 5	
EN 12730-B	RESISTANCE TO STATIC LOADING (RIGID SUPPORT)	kg	NPD	
EN 12310-1	RESISTANCE TO TEARING Longitudinal Transversal	N	200 (±30%)	
		N	200 (±30%)	
EN 12311-1	TENSILE STRENGTH Longitudinal Transversal	N/50 mm	500 (±20%)	
		N/50 mm	400 (±20%)	
	ELONGATION AT BREAK Longitudinal Transversal	%	100 (±15)	
		%	100 (±15)	
ASTM D 1000	PEELING	N/10 mm	≥ 20	
EN 1109	COLD FLEXIBILITY	°C	≤ -25	
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥ 100	
DURABILITY AFTER AGEING				
EN 1928-B - EN 1296	WATERTIGHTNES AGAINST ARTIFICIAL AGEING	kPa	Meets the requirements	
EN 1928-B - EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	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	
EN 1109 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (COLD FLEXIBILITY)	°C	NPD	
EN 1110 - EN 1296	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C	≥ 90	
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	-	< 5.0E ⁻¹²	
SP METHOD 3873	TRANSMITTANCE TO RADON GAS	-	< 3.0E ⁻⁹	
BR 2012	TRANSMITTANCE TO METHANE GAS	-	NPD	
IEC 62631-3-1:2016	VOLUMETRIC RESISTIVITY	Ωcm	7.17E ⁺¹⁴	
EN 13948	RESISTANCE TO ROOT PENETRATION	-	NPD	
-	THERMAL CONDUCTIVITY	W/mK	0,20	
-	THERMAL CAPACITY	kJ/K	1,20	

PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
ADESOGUARD SA H R	1,5	-	1x20
ADESOGUARD SA H R	1,8	-	1x15

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.

Adesoguard SA

INSTALLATION TIPS

The surface of any substrate due to be covered with **ADESOGUARD SA** 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.

ADESOGUARD SA 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 applied on foundations to deal with rising damp are generally single-ply systems.

To make the installer's job easier and ensure the membrane adheres to the substrate properly, we recommend using membranes no more than 2 m long.

The membrane must be long enough to extend at least 15 cm beyond the finished ground level.

It must be fixed mechanically at the top to stabilize the membrane and to allow the next stages of the project to be carried out.

Once the membrane has been applied, a protection and drainage layer is required - with the application of POLYFOND KIT or POLYFOND KIT DRAIN - before the site can be backfilled.

For further details on application, please refer to the installation instructions contained in the ADESOGUARD® 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.



POLYGLASS SPA

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