

# PLURA SELF-ADHESIVE SBS

## Waterproofing composite self adhesive membrane

### Description

The bituminous PLURA SELF-ADHESIVE membranes are the arrival point of the latest generation of membranes denominated "composite".

These membranes are so defined because thanks to new manufacturing technologies it is possible to produce materials with differentiated waterproofing mass, which allow the optimal utilization of each components properties, satisfying the different requirements.

The production process avails itself of three different compound types, manufactured in separate dissolvers and sent to the respective areas of application on the production line.

The first session allows the impregnation of the reinforcement which is a continuous single strand polyester using a particular compound suitable in saturating all its porosities, providing compatibility and promoting the elasticity or plasticity properties of the different applied compounds be they on the top or bottom surface.

During the second session a different compound is applied on the top surface depending on the destination of use of the membrane.

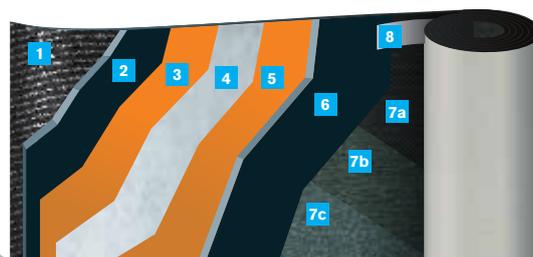
During the third session a particular compound with excellent self adhesive properties is applied on the lower surface, the thickness of which is calibrated.

The PLURA SELF-ADHESIVE membranes are capable of resolving specific application and functional requirements and present numerous and important advantages, such as ease of application with consequential savings on time and the possibility to apply the material on surfaces which are not suitable to open flame. Therefore PLURA SELF-ADHESIVE is insuperable in the waterproofing of wood structures, insulation panels which are heat sensitive, panel decks and refurbishment of historical roofs. Furthermore PLURA SELF-ADHESIVE can be used and allows the waterproofing of particular roof details (ex. bandaging of plastic tubes, etc.) and the possibility to also apply with the traditional application method of open flame or hot air, obtaining an exceptional level of adhesion.

PLURA SELF-ADHESIVE guarantees a perfect level of adhesion to the application surface, providing the system with an excellent level of wind uplift resistance and allowing accidental infiltrations to be traced.

### Stratigraphy

1. Silicon release film
2. Self-adhesive waterproofing compound
3. Compatibility compound
4. Continuous single strand composite woven non woven polyester reinforcement
5. Compatibility compound
6. Self-adhesive waterproofing compound
- 7a. Polypropylene mat finish
- 7b. PE film finish
- 7c. Mineral finish
8. Selvedge release film



PLURA SELF-ADHESIVE has a continuous single strand composite woven non woven polyester reinforcement with high mechanical characteristics.

The lower face of PLURA SELF-ADHESIVE is protected with a removable silicon release film. The upper face is self protected with mineral slates which also reduce the absorption of heat; furthermore a removable side selvedge of 10 cm is foreseen.

In the P version the upper face is protected with a polyethylene film; if requested with a polypropylene mat.

### Fields of use

PLURA SELF-ADHESIVE with its innovative characteristics is indicated to waterproof a wide range of works, both civil and industrial.

PLURA SELF-ADHESIVE shows its peculiarity in those applications where it is not suggestible to use open flame, for example on heat sensitive insulation panels (polystyrene), wooden roofs, metal decks and for all under roof shingle applications.

### Fields of use



#### EN13707 Continuous roofs (Certificate n° 0958-CPR-2045/1)

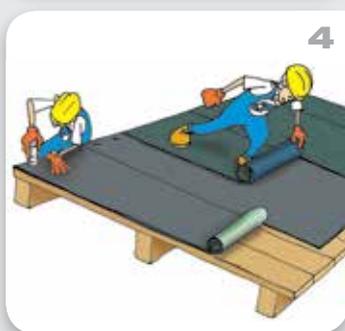
	N° layers			Method of application					Type of application			Type					
	Single Layer	Double Layer	Multilayer	Torch	Hot Air	Mixed (Torch / Air)	Cold Bond Glue	Mechanical Fixing	Thermo Adhesive / Self-Adhesive	Fully Bonded	Partially Bonded	Loose Laid	Complimentary Layer	Top Layer	Heavy Protection	Anti-root	Other Uses
PLURA SELF-ADHESIVE P 2 MM	▪	▪	▪					▪	▪				▪				
PLURA SELF-ADHESIVE PA 3.5 KG/M²		▪	▪					▪	▪				▪				
PLURA SELF-ADHESIVE PA 4.0 KG/M²			▪					▪	▪				▪				

#### EN13859-1 Under roof tile

PLURA SELF-ADHESIVE PA 3.5 KG/M²	▪	▪	▪					▪	▪					▪			
PLURA SELF-ADHESIVE PA 4.0 KG/M²		▪	▪					▪	▪					▪			

The waterproofing membrane based on distilled bitumen and polymers, as shown in this data sheet does not require the issue of a MSDS, because it does not contain dangerous substances. The information data sheet for the proper use of products is available.

## How to apply



## PLURA SELF-ADHESIVE SBS

### Application

1. On cementitious surfaces and similar apply, by roller or airless, synthetic primer PRIMER SINT, approx. consumption 200-400 g/m<sup>2</sup>. This application is not required on wooden roofs except OSB boards.
2. Position the PLURA SELF-ADHESIVE SBS on the application surface; provide side & head laps respectively of 10 & 15 cm's between the sheets, making sure to remove the selvage release film. (Draw. N.1)
3. Remove the release film from the lower face, this is divided longitudinally in two sections, in one or two steps, making sure to also remove the side selvage of the upper surface. It is always suggested to mechanically fix head & side laps. (Draw. N.2)
4. Use suitable roller by applying pressure over all of the membrane surface, particularly the side & head laps to further promote adhesion.
5. Position suitable single or double battens for subsequent laying of the sealing element consisting of a discontinuous covering mantle (tiles, roof tiles, etc.) as required by the UNI 9460: 2008 standard - Discontinuous roofing for roofs. (Draw. N.3)
6. In the event of high internal relative humidity, or the presence of humidity in the wooden deck application surface, to prevent the formation of condensation on the inner face of the adhesive membrane during the night, which may cause marks or stains over time in the ceiling of the rooms below, foresee the use of MONOTEC vapor separation and diffusion layer having a polypropylene film finish mechanically fixed to the support with broad-headed nails. The adhesive membrane is then applied over the vapor diffusion layer. (Draw. N.4)

### Recommendations

- The PLURA SELF-ADHESIVE SBS membranes are to be applied on dry clean surfaces which must be treated with a synthetic primer, excluded are wooden roofs except OSB boards.
- Self-adhesive membranes must not be applied on sanded or talced underlays. The granulometry of these upper surfaces creates a detaching effect that prevents the self-adhering properties from achieving a fully bonded installation.

- The side & head laps must be respectively of 10 & 15 cm's.
- When applying on verticals, the apex of the membrane must be mechanically fixed with a proper flashing; where possible it is advisable to go up and over the vertical and on to the horizontal surface.
- Avoid storing the product on the roof with temperatures lower than +10°C or higher than +40°C if not for the time necessary for installation.
- With temperatures below +10°C it is necessary to apply the product using particular precautions:
  1. Store the rolls in an upright position in the original packaging, indoors and in dry and warm areas.
  2. Transport the rolls to the place of application only at the time of use.
  3. The ideal application occurs at temperatures above +10°C, however it is possible to apply the product below +5°C bringing the rolls to the ideal temperature with a leister or gas torch.
- **The application surface must not have any depressions to avoid the risk of ponding water, the slope must be at least 1.5% on concrete decks and 3% for steel or wooden ones, this to guarantee a proper run off of rainwater.**
- Program periodical roof inspections to remove debris, mud, plants, etc. and to keep under control the waterproofing as well as accessory details (drain outlets, TV antennas, air conditioning, etc.).
- In the eventuality in which the element to be waterproofed presents residual humidity (ex. refurbishment, application after heavy rains) it is necessary to foresee the use of air vents, which will be positioned in a way to allow for the evacuation of the humidity.
- Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.

## Technical data

Technical Characteristics	Measure Units	Reference Norm	P	PA	Tolerance
<b>Type of reinforcement</b>			Single strand polyester		
<b>Upper face finish</b>			PE film	Mineral *	
<b>Lower face finish</b>			Silicon release film		
<b>Visible defects</b>		EN 1850-1	No		
<b>Straightness</b>	mm/10 m	EN 1848-1	< 20		
<b>Length</b>	m	EN 1848-1	15 -1%	10 -1%	
<b>Width</b>	m	EN 1848-1	1 -1%		
<b>Thickness</b>	mm	EN 1849-1	2		±5%
<b>Mass</b>	kg/m <sup>2</sup>	EN 1849-1		3,5 4,0	±10%
<b>Cold flexibility</b>	°C	EN 1109	-25		
<b>Flow resistance</b>	°C	EN 1110	NPD		
<b>Tensile strength L / T</b>	N / 5 cm	EN 12311-1	400/300		±20%
<b>Elongation at break L / T</b>	%	EN 12311-1	35/35		±15
<b>Tearing resistance L / T</b>	N	EN 12310-1	120/120		±30%
<b>Fire resistance</b>		EN 13501-5	F ROOF		
<b>Fire reaction</b>		EN 13501-1	F		
<b>Watertightness</b>	kPa	EN 1928	60		

\* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.

NPD = No Performance Declared in accordance with the EU Construction Products Directive.

## Sizes & packing

	P 2 mm	PA 3,5 kg/m <sup>2</sup>	PA 4,0 kg/m <sup>2</sup>
<b>Rolls size [m]</b>	15x1	10x1	10x1
<b>Rolls per pallet</b>	30	30	27
<b>Square meters per pallet [m<sup>2</sup>]</b>	450	300	270

Sizes & packing may vary depending on the type of transportation.

The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.