

# PLURA SELF-ADHESIVE HDPE

## Waterproofing composite self adhesive membrane

### Description

The bituminous PLURA SELF-ADHESIVE HDPE 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 HDPE 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 HDPE is insuperable in the waterproofing of wood structures, insulation panels which are heat sensitive, panel decks and refurbishment of historical roofs.

PLURA SELF-ADHESIVE HDPE 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.

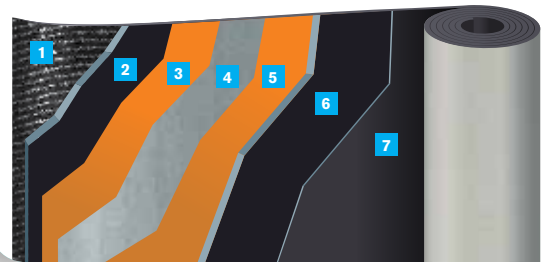
PLURA SELF-ADHESIVE HDPE has a fiberglass reinforcement.

The lower face of PLURA SELF-ADHESIVE HDPE is protected with a removable silicon release film.

The upper face is protected with a cross laminated HDPE film which offers high mechanical performances, with exceptional tear and impact resistance, in addition to the excellent long term UV resistance.

### Stratigraphy

1. Silicon release film
2. Self-adhesive waterproofing compound
3. Compatibility compound
4. Fiberglass reinforcement
5. Compatibility compound
6. Self-adhesive waterproofing compound
7. Cross laminated HDPE film finish



### 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.

This particular version with HDPE film finish is recommended for basements and could be used as a Radon gas barrier.

### Fields of use



#### EN13707 Continuous roofs (Certificate n° GB14/92056)

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	
Single Layer																		
Double Layer		■																
Multilayer			■															
PLURA SELF-ADHESIVE HDPE V 2 MM																		

## How to apply



# PLURA SELF-ADHESIVE HDPE

## Application

1. On cementitious surfaces and similar apply, by roller or airless, bituminous primer, 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 on the application surface; provide side & head laps respectively of 10 & 15 cm's between the sheets. (Draw. N.1)
3. Remove the release film from the lower face, this is divided longitudinally in two sections, in one or two steps. 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.

## Recommendations

- The PLURA SELF-ADHESIVE HDPE membranes are to be applied on dry clean surfaces which must be treated with a bituminous primer, excluded are wooden roofs except OSB boards.
- 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.

- Do not apply the PLURA SELF-ADHESIVE HDPE membrane in cold and damp weather; both the membrane and application surface temperatures must be superior to 15°C.
- The rolls are to be stored in an upright position, preferably indoors in a dry and ventilated area with temperatures higher than 15°C. When storing with original packaging, pallets should not be stacked.
- During cold weather for an easier application use an appropriate gas or hot air torch.
- The application surface must not have any depressions to avoid water ponding, and must have a slope which is sufficient enough to guarantee the run off of rain water (min. 1.5 %).
- 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.

For further information and news we recommend to consult Pluvitec technical literature; our Technical service is always available to study particular problems and to offer the necessary assistance for optimal use of our waterproofing membranes.

## Sizes & packing

	V 2 mm
Rolls size [m]	15x1
Rolls per pallet	30
Square meters per pallet [m <sup>2</sup> ]	450

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.

## Technical data

Technical Characteristics	Measure Units	Reference Norm	V	Tolerance
Type of reinforcement			Fiberglass	
Upper face finish			Cross laminated HDPE film	
Lower face finish			Silicon release film	
Length	m	EN 1848-1	15 -1%	
Width	m	EN 1848-1	1 -1%	
Thickness	mm		2	±5%
Cold flexibility	°C	EN 1109	-15	
Flow resistance	°C	EN 1110	100	
Flow resistance after ageing	°C	EN 1296 EN 1110	90	
Tensile strength L / T	N / 5 cm	EN 12311-1	450/300	-20%
Elongation at break L / T	%	EN 12311-1	250/250	-15
Tearing resistance L / T	N	EN 12310-1	200/200	-30%
Dimensional stability	%	EN 1107-1	NPD	
Fire resistance		EN 13501-5	F R00F	
Fire reaction		EN 13501-1	F	
Watertightness	kPa	EN 1928	60	
Vapour transmission rate	μ	EN 1931	90.000	