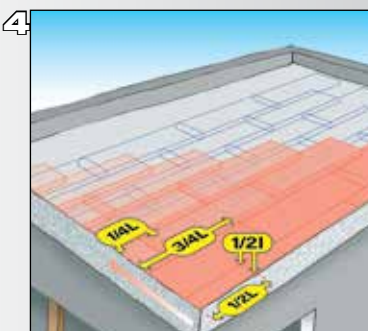
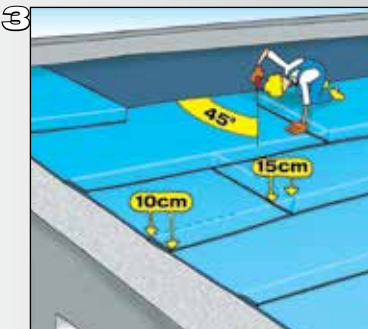
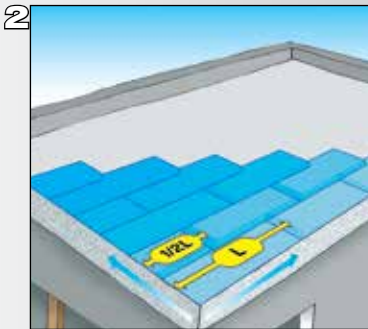
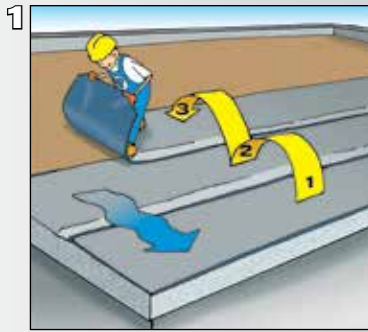


How to apply



Sizes & packing

Description	P3 3 kg/m²	P4 4 kg/m²	P5 5 kg/m²	P6 6 kg/m²	P7 7 kg/m²	P8 8 kg/m²	P9 9 kg/m²	P10 10 kg/m²	P11 11 kg/m²	P12 12 kg/m²	P13 13 kg/m²	P14 14 kg/m²	P15 15 kg/m²	P16 16 kg/m²	P17 17 kg/m²	P18 18 kg/m²	P19 19 kg/m²	P20 20 kg/m²
Rolls size [m]	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1
Rolls per pallet	42	30	30	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Square meters per pallet [m²]	420	300	300	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250

The technical data given is based on average values obtained during production. Pluvitec reserves the rights to change or modify the nominal values without prior notice or advice.

EVOTEC-180

Application

- On cementitious surfaces and similar apply, by roller or airless, bituminous primer, approx. consumption 300 gr/m².
- Apply by torch application a 25 cm strip of membrane reinforced with polyester along all vertical up stands.
- To have all overlaps with the slope, position the membrane always starting from the lowest point. (Draw. N.1)
- Position the membrane sheets staggered, avoiding to create any overlaps against the slope and the drains. (Draw. N.2)
- Cut the corners of membrane sheet which will be laid under the next sheet at a 45° angle (10x10 cm). (Draw. N.3)
- The joints, both side and head, must be respectively overlapped by 10 & 15 cm. (Draw. N.3)
- The second layer of membrane will be applied astride and over the first one, always in the same direction, and approx. 1/4 of its length from the previous sheet. (Draw. N.4)
- The bituminous membrane will be applied with a propane gas torch to the substrate. It is necessary to heat the entire surface, except for the side & head laps, making sure that the compound forms a liquid mass in front of the roll to assure that it saturates any superficial porosity.
- The side laps (10 cm) and head laps (15 cm) will be heat welded with an appropriate torch; during this stage the overlaps should be pressed by using a roller (15 kg) from which a bead of compound should flow and therefore avoiding to have to iron the overlaps.
- Apply the vertical membrane sheet having the same characteristics of the waterproofing membrane and dimensions equal to the width of the roll, making sure that it overlaps the horizontal one by at least 10 cm, heating it with a gas torch and squeezing it with a trowel until a bead of compound appears from underneath.
- The height of the verticals must be equivalent or superior to the finished surface by at least 15 cm.

Recommendations

To best use the technical characteristics of bituminous membranes and guarantee the maximum performance and durability of the jobs where they are used, some simple but fundamental rules must be respected.

- The rolls are to be stored in an upright position, preferably indoors in a dry and ventilated area, away from heat

sources and avoiding to stack them one on top of the other to avoid possible deformations which may compromise the application. When storing with original packaging, these should not be stacked more than two plts high using appropriate wooden spacers.

- The rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls. The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.
- The application surface must be smooth dry & clean.
- The application surface must be previously treated with a suitable bituminous primer (PRIMERTEC or ECOPRIMER), to eliminate dust and enhance the adhesion of the membrane.
- 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 %).
- In situations of application on vertical surfaces superior to 2 meters or on very sloped substrates, apply suitable mechanical fixings to the head laps, after which they will be sealed when torching the head laps.
- The application must be done at temperature higher than + 5°C.
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.)
- The materials without mineral self-protection or P+V, used as a top layer (cap sheet), can be painted with an aluminium coating to improve and extend the performance and life expectancy, the material should be allowed to oxidize approx. 3-6 months before being coated. An alternative, depending on the type of construction, it is possible to use heavy protection (floating pavements, stone, etc.)
- The pallets on which the rolls are packaged are intended for normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation.

Technical data

Technical Characteristics	Measure Units	Reference Norm	P	P	P	P	PA	PA	PA	V	V	VA	Tol.
Type of reinforcement			Single strand polyester -180							Fibre glass			
Upper face finish			Sand, talc or PE film				Mineral*		Sand or talc		Mineral*		
Lower face finish			PE film										
Length	m	EN 1848-1	10 -1%										
Width	m	EN 1848-1	1 -1%										
Thickness	mm	EN 1849-1			3	4							-5%
Mass	kg/m²	EN 1849-1	3,0	4,0			3,5	4,0	4,5	3,0	4,0	4,0	-10%
Cold flexibility	°C	EN 1109	-5										
Flow resistance	°C	EN 1110	120										
Flow resistance after ageing	°C	EN 1296				120		120				120	-10°C
Artificial U.V. ageing		EN 1297				■							
Tensile strength L / T	N / 5 cm	EN 12311-1	650/450										-20%
Elongation at break L / T	%	EN 12311-1	35/35							2/2			-15 -2
Tearing resistance L / T	N	EN 12310-1	150/150										-30%
Dimensional stability	%	EN 1107-1	0,3										
Loss mineral	%	EN 12039					30					30	
Fire resistance		EN 13501-5	F ROOF										
Fire reaction		EN 13501-1	F										
Tensile strength after ageing L / T	N / 5 cm	EN 1296					NPD						-20%
Elongation at break after ageing L / T	%	EN 1296					NPD						-15
Impermeability after artificial ageing	kPa	EN 1296					60						
Watertightness	kPa	EN 1928	60										

■ = pass

* It is impossible to guarantee the color uniformity on self protected mineral membranes as the suppliers of the same do not provide any also. All self protected mineral finished membranes undergo color variations over time due to the exposure to atmospheric agents. Normally these variations in time will gradually become uniform.