

Dual reinforced APP modified waterproofing membrane

AT ITC n° 630/04

Description

Prefabricated modified polymer-bitumen membrane, whose compound is composed of distilled bitumen and elasto-plastomeric polyolefin polymers (APP), reinforced with a woven non woven single strand composite polyester fabric and fiberglass mat which give the product excellent dimensional stability and very high mechanical strength, Agreement certificate n. 630/04 from ITC.

The fiberglass mat is positioned at the very top of the upper face which provides a greater durability of the waterproofing membrane and enhances the adhesion of coatings, also available the self-protected pre-coated red finish using the patented COLORTEC® system, while the lower face is protected with a polypropylene mat. PRATIKO P+V is specifically designed for application with cold adhesive glue, PRATIKO AD, providing excellent durability of the waterproofing system, the product can also be applied using gas or hot air torch.

PRATIKO P+V 4 mm NO FLAME

The NO FLAME version is manufactured with special non toxic inorganic flame retardant additives which confer a resistance to flame, with results in accordance to European directive requirements.

Methods of application

The application of the membrane is generally obtained using PRATIKO AD, modified cold adhesive glue, while for the details PRATIKO MASTIC. The side laps and head laps, respectively of 10 & 15 cm's, will be bonded using either a gas or hot air torch. When applying over heat sensitive materials (ex. polystyrene insulation) the use of a gas or hot air torch is not advised.

Particular care should be given during the application around details (perimeters, protruding areas, etc.) and where there is change of slope, which must always be done using PRATIKO MASTIC making sure to use the required protection and fixings (metal flashings, etc.).

For further information we recommend to consult PLUVITEC's technical literature.

Fields of use

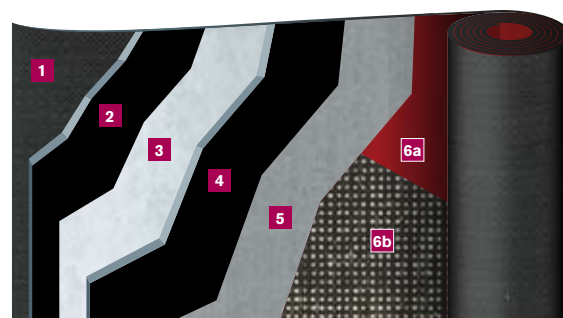
For their characteristics, the membranes of the PRATIKO P+V series can be used with success in a wide range of both civil and industrial works, such as terraces, sloped roofs, retaining walls & concrete decks (flat, curved, etc.).

In virtue of the particular formulation, PRATIKO P+V is compatible and can be applied with all PLUVITEC membranes, both APP & SBS.

PRATIKO P+V can be used, depending on the type of construction and project, either in single layer or multi-layer applications especially where high characteristics of dimensional stability are required. When applying with cold adhesive glue, PRATIKO P+V is used in single layer, after having applied the bituminous PRATIKO AD cold adhesive glue and where necessary the bituminous mastic PRATIKO MASTIC.

Stratigraphy

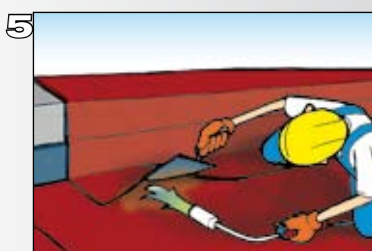
1. Polypropylene mat
2. Waterproofing mass
3. Woven non woven single strand composite polyester reinforcement
4. Waterproofing mass
5. Fiberglass mat
- 6a. COLORTEC® finish
- 6b. Talc finish



Fields of use

		CE Certification		N° layers		Method of application			Type of app.			Type										
<div><div><div>CE</div></div><div><div><div><div>■</div><div>Certificate N. 0958-CPD-DK029</div></div><div><div>★</div><div>Certificate N. 0958-CPD-DK030</div></div></div><div><div><div>INTRON</div><div>CERTIFICATIE</div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>Certification body 0958</div></div></div></div></div></div>	<div>EN13707</div> <div>Continuous Roofs</div>	<div>EN13859-1</div> <div>Under Roof Tile</div>	<div>EN13970</div> <div>Vapour Barrier</div>	<div>EN13969</div> <div>Retaining Walls</div>	Other Uses	Single Layer	Double Layer	Multilayer	Torch	Hot Air	Mixed (Torch/Air)	Cold Bond Glue	Mechanical Fixing	Thermo Ad / Self Adhesive	Fully Bonded	Partially Bonded	Loose Laid	Complimentary Layer	Top Layer	Heavy Protection	Anti-root	Other Uses
	■			★																		
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PRATIKO P+V 3 MM																						
PRATIKO P+V 4 MM																						
PRATIKO COLORTEC ROSSO P+V 4 MM																						
PRATIKO P+V 5 MM																						
PRATIKO P+V 4 MM NO FLAME																						

How to apply



Sizes & packing*

Description	P+V 4 mm	P+V 5 mm
Rolls size (m)	10 x 1.1	7.27 x 1.1
Rolls per pallet	20	20
Square meters per pallet	220	160

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

PRATIKO P+V

Application & recommendations

- On cementitious surfaces and similar apply, by roller or airless, bituminous primer PRIMERTEC, approx. consumption 200-400 g/m². (Fig. 1)
- Apply by gas or hot air torch a 25 cm strip of PRATIKO P+V along all the vertical up stands.
- Position the membrane always starting from the lowest point, in order to have all the overlaps with the slope.
- Apply and position the membranes staggered to avoid creating areas where the membrane overlap against the slope and in the direction of the drains.
- Cut the corners of the membrane which will be applied under the next sheet with a 45° angle.
- After having positioned the roll, re-roll the material for half of its length. (Fig. 2)
- Pour the cold bond adhesive PRATIKO AD and depending on the surface absorption the consumption is approx. 0,8 to 1,5 kg/m². (Fig. 3)
- Apply and spread the PRATIKO AD evenly and uniformly using a suitable squeegee. Apply the membrane over the cold bond adhesive. Re-roll the remaining half of the roll and proceed as previously described.
- Torch the side laps (10 cm) and head laps (15 cm) with a torch for overlaps. During this stage the overlaps should be pressed by using a roller (15 kg) from which a bead of compound should flow. Do not iron the overlaps. (Fig. 4)
- Apply the membrane on the verticals making sure that they overlap on the horizontal surface at least 10 cm, make sure that they are fully bonded using a trowel to squeeze a bead of compound from underneath. (Fig. 5)
- The height of the vertical must be equivalent or superior to the finished surface by at least 15 cm.
- Where there is a walkable pavement a reinforcing strip must be used which has a width that is at least 10 cm above the finished pavement.
- When the roof slope is superior to 15% the membrane must be exclusively applied by gas or hot air torch directly on the PRIMERTEC and without the use of PRATIKO AD.

Technical data

Technical Characteristics	Measure Units	Reference Norm	P+V	Tol.
Type of reinforcement			Single strand polyester + Fibre glass	
Upper face finish			Sand or talc Colortec Red Sand or talc	
Lower face finish			Polypropylene	
Length	m	EN 1848-1	10 -1%	7,27 -1%
Width	m	EN 1848-1	1,1 -1%	
Thickness	mm	EN 1849-1	4	5 -5%
Cold flexibility	°C	EN 1109	-20	
Flow resistance	°C	EN 1110	140	
Flow resistance after ageing	°C	EN 1296	140	-10%
Artificial U.V. ageing		EN 1297	Pass	
Shear resistance L/T	N / 5 cm	EN 12317-1	550/500	-20%
Tensile strength L/T	N / 5 cm	EN 12311-1	650/600	-20%
Elongation at break L/T	%	EN 12311-1	45/45	-15
Tearing resistance L/T	N	EN 12310-1	200/200	-30%
Static puncture resistance	kg	EN 12730	15	
Dynamic puncture resistance	mm	EN 12691	1000	
Dimensional stability	%	EN 1107-1	0,1	
Peel resistance of joints L/T	N	EN 12316-1	50/50	-20N
Fire resistance		EN 13501-5	F ROOF	
Fire reaction		EN 13501-1	F	
Impermeability after artificial ageing	Kpa	EN 1296	60	
Watertightness	Kpa	EN 1928	60	
PRATIKO P+V 4 mm NO FLAME Version				
Resistance to external fire		EN 13501-5 (ENV 1187-1)	B roof (t1 - t2 - t3)	
Reaction to fire		EN 13501-1 (ISO 11925-2)	E	