

SUPERTEC

APP modified waterproofing membrane

AT ITC n° 634/05

Description

Prefabricated modified composite polymer-bitumen waterproofing membrane, composed of distilled bitumen and polyolefin elasto-plastomeric polymers (APAO) having excellent characteristics and an ITC Agreement n° 634/05. SUPERTEC P & PA are reinforced with a single strand spunbond woven non woven composite polyester, having excellent mechanical characteristics as well as dimensional stability.

SUPERTEC PA 4,5 kg/m² is self-protected on the upper face with mineral slates which reduce heat absorption, improving the durability of the membrane, and has a 10 cm side selvedge and 15 cm head selvedge to promote the adhesion between the sheets.

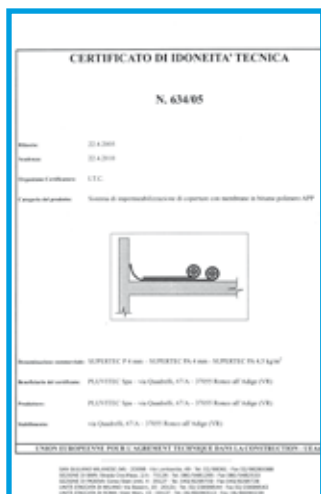
Further available finishes include talc, sand, P.E. film & polypropylene mat.

Methods of application

The application of the membrane is generally obtained by heat, using either a gas or hot air torch, making sure to provide for side laps of 10 cm and head laps of 15 cm.

If applying over heat sensitive materials (ex. polystyrene insulation) a layer of PLURA THERMO AD V or P 2,5 mm should be previously applied. Depending on the substrate the application may be done fully bonded, spot bonded or loose laid. In any case, in proximity of the head lap, the membrane must always be fully bonded for at least 1 meter; the same must also be done for those areas such as the perimeter, verticals and change of slope.

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



Fields of use

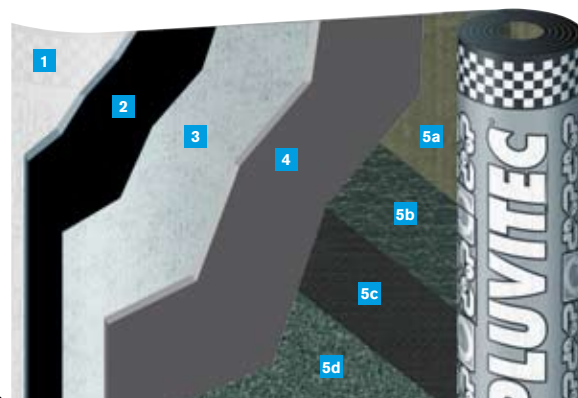
For their characteristics, the membranes of the SUPERTEC series can be used with success in a wide range of both civil and industrial works, such as flat & sloped roofs, terraces, retaining walls & concrete decks, etc.

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

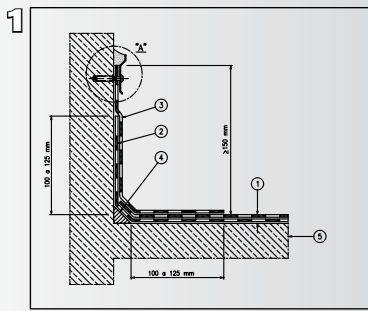


Stratigraphy

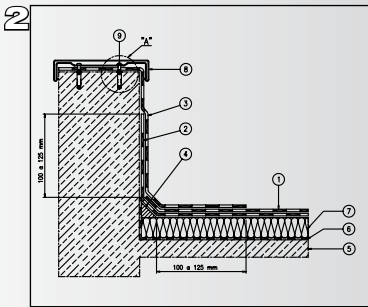
1. P.E. film
2. Waterproofing mass
3. Composite polyester reinforcement
4. Waterproofing mass
- 5a. Sand or talc finish
- 5b. P.E. film finish
- 5c. Polypropylene mat finish
- 5d. Mineral finish



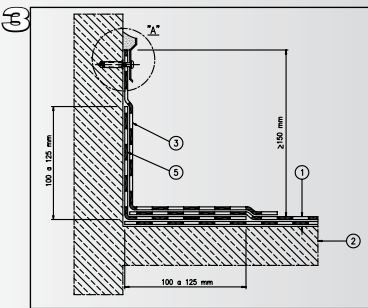
Details



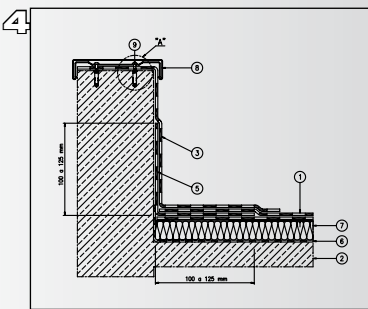
Draw. 1 - 001/0
1. SUPERTEC
2. SUPERTEC
3. SUPERTEC
4. Angle fillet "CantBit"
5. Substrate
6. Flashing
7. Bituminous mastic
8. Mechanical fixing



Draw. 2 - 001/1
1. SUPERTEC
2. SUPERTEC
3. SUPERTEC
4. Angle fillet "CantBit"
5. Substrate
6. Vapor barrier
7. Insulation panel
8. Flashing
9. Mechanical fixing



Draw. 3 - 003/0
1. SUPERTEC
2. Substrate
3. SUPERTEC
5. SUPERTEC
6. Flashing
7. Bituminous mastic
8. Mechanical fixing



Draw. 4 - 003/1
1. SUPERTEC
2. Substrate
3. SUPERTEC
5. SUPERTEC
6. Vapor barrier
7. Insulation panel
8. Flashing
9. Mechanical fixing

Application & recommendations

To best use the technical advantages of the membranes of the SUPERTEC range and therefore obtain the maximum durability and reliability of the projects in which they are used, it is recommended to fulfill the following simple but important rules:

- The rolls are to be stocked vertically and in a suitable premises (covered and ventilated), away from heat sources and avoiding to stack the rolls on each other to avoid possible deformations which may compromise the final application result. The product must be stored at temperatures above 0°C.
- The application surface must be smooth, dry and clean.
- The application surface must be previously primed with PRIMERTEC or IDROPRIMER, to eliminate any superficial dust and promote the adhesion of the membrane.
- The application surface should not have any depressions, to avoid ponding of rain water and must have a minimum slope to allow for the drainage of the same (min. 1,5%).
- In situations where the membrane is applied on verticals which are higher than 2 meters or on very sloped surfaces, apply mechanical fixings along the head laps which will then be sealed by the next sheet.
- The minimum application temperature must be +5°C.
- The application of the membrane must be interrupted in adverse weather conditions (high humidity, imminent rain, etc.)
- In order to increase the performance and durability of the membrane it is strongly suggested to coat the SUPERTEC P 4 mm with either an acrylic (ACRILTEC) or aluminium (ALLUTEK) paint. In which case it is suggested to allow the surface of the membrane to oxidize (3 / 6 months depending on the exposure and climatic conditions). As an alternative, depending on the type of structure, heavy protection may be used.

Technical Characteristics	Measure Units	Reference Norm	P	PA	PA	Tolerances
Type of reinforcement			Spunbond Composite Polyester			
Upper face finish			sand or talc / P.E. film / PPL	Mineral slate		
Lower face finish			P.E. film			
Length	m	EN 1848-1	10 -1%			
Width	m	EN 1848-1	1 -1%			
Thickness	mm	EN 1849-1	4.0	4.0 on overlap	-	-5%
Mass	Kg/m ²	EN 1849-1	-	-	4.5	-10%
Cold flexibility	°C	EN 1109	- 15	- 15	- 15	
Cold flexibility after ageing 6 months at 70°C	°C	EN 1296	-10	-10	-10	
Flow resistance	°C	EN 1110	140	140	140	
Tensile strength L / T	N/5 cm	EN 12311-1	800 / 750	800 / 750	800 / 750	-20%
Elongation at break L / T	%	EN 12311-1	45 / 45	45 / 45	45 / 45	-15 / -2
Tearing resistance L / T	N	EN 12310-1	150 / 150	150 / 150	150 / 150	-30%
Static puncture resistance	Kg	EN 12730	20	20	20	
Dynamic puncture resistance	mm	EN 12691	15	15	15	
Dimensional stability	%	EN 1107-1	L±0.3 T±0.3	L±0.3 T±0.3	L±0.3 T±0.3	
Loss mineral	%	EN 12039	-	30	30	
Watertightness	Kpa	EN 1928	≥ 60	≥ 60	≥ 60	



Sizes & packing*

Description	P	PA	PA 4,5
SUPERTEC	4 mm	4 mm	kg/m²
Rolls size [m]	10x1	10x1	10x1
Rolls per pallet	25	20	23
Square meters per pallet [m ²]	250	200	230

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.