

SUPERTEC

APP modified waterproofing membrane

Description

Pre-fabricated waterproofing membrane made of distilled bitumen and elasto-plastic polyolefin polymers (APP) having a woven non woven single strand composite polyester reinforcement, which provide the membrane with very high mechanical characteristics and excellent dimensional stability. The versions PA are self-protected on the upper face with mineral slates which reduce superficial heat absorption improving the durability of the membrane.

The self-protected versions have a side selvedge of 10 cm and upon request a head selvedge of 15 cm, to improve adhesion between the sheets.

Stratigraphy

- 1. PE film
- 2. Waterproofing mass
- Waterproofing mass
 Sand or talc finish
- **5b.** Mineral finish
- Single strand composite polyester fabric



Methods of application

For the application of the membrane the use of heat is generally used by means of a gas torch or specific hot air machine. Use protective devices required by law. The application by heat is not suggested when on heat sensitive materials (polystyrene insulation).

- Coordinate the operations in a way to not cause damage to the construction elements and underground structure. Avoid to leave the structure for the night or for periods of prolonged work interruptions without having been properly sealed.
- 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.
- The water drainage spouts should be sufficiently big enough to allow for rain water to be eliminated in an efficient way.

- Prepare cementitious substrates, including verticals and details, with a bituminous primer either by brush or airless, approx. 300/400 g/m².
- Allow this preparation layer to dry before proceeding with any other operation.
- With prefabricated constructions, apply a suitable reinforcing strip along all joints. In the presence of construction joints, prefabricated panels or metal decks, suitable expansion joints are to be considered.
- The membranes must be applied to the substrate fully bonded.
- All details, perimeters, verticals, change of slope as well as projecting area must be fully bonded.

For further information and news it is recommended to consult the PLUVITEC technical literature; our Technical Office is always available to evaluate particular problems and to provide the necessary assistance to best apply our waterproofing membranes.

Fields of use

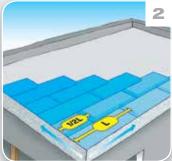
EN13707 Continuous roofs (Certificate nº 0958-CPR-2045/1)

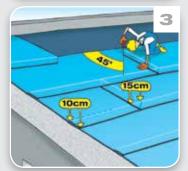
N° layers			Method of application					Type of application			Туре				
Double Layer	Multilayer	Torch	Hot Air	Mixed (Torch / Air)	Cold Bond Glue	Mechanical Fixing	Thermo Adhesive / Self Adhesive	Fully Bonded	Partially Bonded	Loose Laid	Complimentary Layer	Top Layer	Heavy Protection	Anti-root	Other Uses
-	-	•				•		-			•	•	-		
-	-	•				-		-				•			
-	-							•							
EN13859-1 <i>Under roof tile</i>															
-	-	•				•		-			•	•	-		
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	Poldback	Bonple	Bage 1 Double	Bage of the second seco	Bouble Layer Double Layer Autitager Double Layer Doub	 Bouble Layer Double Layer Multilayer Torch Torch Hot Air Mixed (Torch / Cold Bond Glue 	Electronic Control of Contro	Cold Bond Glue Cold Bon	 Bouble Layer Bouble Layer Multilayer Forch Torch Hot Air Mixed (Torch / Mixed (Torch / Mixed Side Oold Bond Glue Mechanical Fixi Self Adhesive 	 Bouble Layer Bouble Layer Multilayer Forch Forch Mited (Torch / Mixed (Torch / Mixed Star Mixed Star	 Bouble Layer Bouble Layer Multilayer Forch Multilayer Multilayer	 Double Layer Double Layer Muttilayer Torch Torch Mixed (Torch / Mixed (Torch /	 Double Layer Double Layer Forch Torch Muttilayer And Air Mixed (Torch / Junch Mixed (Torch / Junch Cold Bond Glue Cold Bond Glue Thermo Adhesive Self Adhesive Partially Bonded Partially Bonded Complimentary Top Layer 	• • Double Layer • • • Mutilayer • • • • Mutilayer • • • • • • • • • • • • • •	• • Double Layer • • • Mutilayer • • • • Mutilayer • • • • • • • • • • • • • •

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









Sizes & packing

	P 4 mm	PA 4 mm	PA 4,5 kg/m²
Rolls size [m]	10x1	8x1	10x1
Rolls per pallet	25	23	23
Square meters per pallet [m²]	250	184	230

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

SUPERTEC

Application

- · On cementitious surfaces and similar apply, by roller or airless, bituminous primer, approx. consumption 300 g/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)

- 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 nest sheet at a 45° angle (10 x 10 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 alway in the same direction and annoxy
- 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
- 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 beating it.
- 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

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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, indoors in a dry and ventilated area, away from heat sources. 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.
- 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 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, to eliminate dust and enhance the adhesion of the membrane.
- 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
- 1.5% on concrete etecks and 5% to see of wooden ones, this to guarantee a proper run off of rainwater.
 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 available at a blick of the black laps. be sealed when torching the head laps. The application must be done at temperature higher than
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.).
 The materials without mineral self-protection or P+V, used
- The materials without mineral self-protection of 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 werehouse use
- normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation

Technical data

Measure Units	Reference Norm	Р	PA		Toleranc
		Single strand polyester			
		Sand or talc	Miner		
		PE film			
m	EN 1848-1	10 -1%	8 -1%	10 -1%	
m	EN 1848-1	1 -1%			
mm	EN 1849-1	4	4 on selvedge		±5%
kg/m²	EN 1849-1			4,5	±10%
°C	EN 1109		-15		
°C	EN 1110		140		
°C	EN 1296		140		-10°C
	EN 1297	pass			
N / 5 cm	EN 12311-1		850/650		-20%
%	EN 12311-1	40/40			-15
Ν	EN 12310-1	200/200			-30%
kg	EN 12730	20			
mm	EN 12691		1250		
	EN 13501-5		F ROOF		
	EN 13501-1		F		
%	EN 1107-1		-0,3		
%	EN 12039		30)	
kPa	EN 1928		60		
N / 5 cm	EN 1296		NP	D	-20%
%	EN 1296		NP	D	-15
kPa	EN 1296		60)	
	Units M m mm kg/m ² °C °C °C °C N / 5 cm % N kg mm % N kg mm %	Image Image m EN 1848-1 m EN 1848-1 mm EN 1848-1 mm EN 1848-1 mm EN 1849-1 imm EN 1201-1 imm E	Units Norm F Image: Sime stand or tall Sand or tall Sand or tall Sand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall Image: Sime stand or tall <	Units Norm I Single strand polyes Image: Sand or talc Sand or talc Miner Image: Sand or talc Sand or talc Miner Image: Sand or talc Sand or talc Miner Image: Sand or talc Sand or talc PE film Image: Sand or talc Image: Sand or talc PE film Image: Sand or talc Image: Sand or talc PE film Image: Sand or talc Image: Sand or talc PE film Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or talc Image: Sand or	Units Norm P PA Image: Simple strand polyser Sand or talc Min=r Image: Simple strand polyser Sand or talc Min=r Image: Simple strand polyser Sand or talc Min=r Image: Simple strand polyser PE film Image: Simple strand polyser Image: Simple strand polyser Sand or talc PE film Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand polyser Image: Simple strand polyser Simple strand polyser Image: Simple strand pol

* 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

UVitec®



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