GECO WATERPROOFING SYSTEMS

IPERTEK 500

Vapour retarder bituminous membrane

Description
IPERTEK are vapour retarder bituminous membranes, made from a woven non woven polyester impregnated with a distilled polymer bitumen compound.
IPERTEK guarantees a good breathability and assures to the structure a very good level of vapour permeability, even though it provides a sufficient water impermeability (on roofs with not less than a 40% slope).

Reinforcement
The reinforcements of woven non woven polyester provide good mechanical properties such as resistance to tear in those situations where mechanical fixings are used.

Finishes
The IPERTEK range is finished on both sides with a special polypropylene mat. The product is also available on request with a double PE film finish or with PE film / sand / aluminium film finish. On request the product can be supplied with longitudinal selvedge self-sealing in hot melt.

Areas of application
The product is particularly suitable for the following applications:

- under roof tiles and particularly suitable for ventilated wooden roofs, using the product on top of the ventilation chamber. For those roofs with considerable slope (>40%) IPERTEK will provide a certain level of impermeability should a tile be broken;
- for refurbishment and reconditioning of old waterproofing membranes, to obtain a uniform layer of the vapour pressure (foresee the use of air vents);
- on all types of structures, as a separation layer between the waterproofing and following elements (ex. the use of heavy protection such as gravel to protect the waterproofing layer).

Packing	
Rolls size (m)	30 x 1
Rolls / m^2 per pallet	42 / 1.260

Methods of application
The waterproofing products can be applied on counter battens or on planks; in both cases the products must be mechanically fixed with a large headed nail overlapping the upper sheet to the lower one in the direction of the slope. However never obstruct the ventilation (air vents, grates) and the sheets must overlap by 10 cm making sure to also bring them down in to the eaves by 10 cm, make sure to seal every overlap with an appropriate self-adhesive tape.
When applying over insulation panels a 2 cm blade of air must be left to allow for ventilation.

Storage
It is suggested to keep the rolls in a warehouse, out of direct sun rays and at a temperature not inferior to +5°C. Maintain the rolls in a vertical position. Avoid, if possible, to stack the plts on top of each other.

Technical characteristics	**Reference norm** CE	**Value**	**Tolerance**
Type of reinforcement		Polyester	
Upper surface finish		Polypropylene mat / PE film / Sand / Aluminium film	
Lower surface finish		Polypropylene mat / PE film	
Length	EN1848-1	30 m -1%	≥
Width	EN1848-1	1 m -1%	≥
Cold flexibility	EN1109	-20°C	
Weight	EN1849-1	500 g/m^2	-10%
Tensile strength L/T	EN12311-1	600/350 N/5 cm	-20%
Tear resistance L/T	EN12310-1	140/140 N	-30%
Elongation to break L/T	EN12311-1	20/20 %	-15
Dimensional stability	EN1107-1	NPD	
Fire resistance	EN13501-5	F ROOF	
Fire reaction	EN13501-1	F	
Water vapour permeability	EN1931	30.000 μ	-20%
Water penetration	EN1928	W1	
Water vapour diffusion thickness layer equivalent	EN1931	33 Sd=m	
Density of water vapour flow	EN1931	1,20 x 10^{-8} kg/m^2 sec	
Specific heat		0,70 KJ/K	
Thermal conductivity		0,2 W/m°K	

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