GECO WATERPROOFING SYSTEMS

IPER SV

Vapour shield waterproof bituminous membrane

Description
IPER SV are a range of vapour shield waterproof bituminous membranes, achieved with a woven non woven polyester of heavy grammage, impregnated with a polymer bitumen compound.
The IPER SV range guarantees a good impermeability to water and furthermore, given the heavier weight compared to normal vapour shield bituminous membranes, capable to assure a higher resistance to U.V. rays and walkability during application.
Furthermore the IPER SV membranes can be used as a "vapour shield" prior to the application of the insulation.

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

Finishes
The IPER SV range is finished on both sides with a special polypropylene mat.
The product is also available on request with:
- double PE film finish
- PE film/sand finish
- PE film/aluminium film finish.

Areas of application
The product is particularly suitable for the following applications:
- under roof tiles, providing an impermeable waterproof layer should the tiles be broken. The lightness and mechanical resistance make the product reliable, easy to apply on the battens on which the roof tiles rest;
- as a vapour shield before the application of insulation, and all those applications where an absolute vapour barrier is not required (in which case instead specific membranes are available with a metallic foil that totally block any vapour passage);
- 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).

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.

Packaging

	SV 800	SV 1100	SV 1500
Roll dimensions (m)	30x1	30x1,1	20x1
Rolls per plt	33	30	30
m^2 per plt	990	990	600

Technical characteristics	Reference norm CE	IPER SV 800	IPER SV 1100	IPER SV 1500	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%	30 m -1%	20 m -1%	≥
Width	EN1848-1	1 m -1%	1,1 m -1%	1 m -1%	≥
Weight	EN1849-1	800 g/m^2	1100 g/m^2	1500 g/m^2	-10%
Cold flexibility	EN1109	-20°C	-20°C	-20°C	
Tensile strength L/T	EN12311-1	500/325 N/5 cm	400/300 N/5 cm	400/300 N/5 cm	-20%
Tear resistance L/T	EN12310-1	140/140 N	120/120 N	120/120 N	-30%
Elongation to break L/T	EN12311-1	20/20 %	35/35 %	35/35 %	-15
Dimensional stability	EN1107-1	NPD			
Fire resistance	EN13501-5	F ROOF			
Fire reaction	EN13501-1	F			
Water vapour permeability	EN1931	110.000 μ			-20%
Water penetration	EN1928	W1			
Water vapour diffusion thickness layer equivalent	EN1931	60 Sd=m	100 Sd=m	120 Sd=m	≥
Density of water vapour flow	EN1931	3,50 x 10^{-8} kg/m^2 sec	4,00 x 10^{-8} kg/m^2 sec	4,10 x 10^{-8} kg/m^2 sec	≥
Specific heat		1,20 KJ/K	1,45 KJ/K	1,75 KJ/K	
Thermal conductivity		0,2 W/m°K			

Geco reserves the rights to change or modify the nominal values without prior notice or advice.

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