TOP WATERPROOFING

MARIN PLUS - SLATED MARIN PLUS

PLASTOMERIC - BITUMINOUS MEMBRANE BPP

Technical data sheet

REINFORCEMENT		NON WOVEN POLYESTER FABRIC
COMPOUND		BITUMEN – PLASTOMER BPP
FINISHING		MARIN PLUS: SAND; SLATED MARIN PLUS: NATURAL SLATE
APPLICATION METHOD		FLAME WELDING
DESTINATION OF USE		
SLATED MARIN PLUS	CE	EN 13707 WATERPROOFING SYSTEM MULTILAYER : FINISHING LAYER EN 13859-1 WATERPROOFING SYSTEM: UNDER TILE
MARIN PLUS		EN 13707 WATERPROOFING SYSTEM MULTILAYER: FINISHING LAYER - UNDER LAYER
FPC CODE		GB14/92057

Description

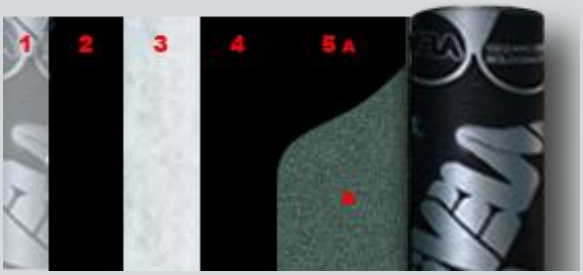
Monoreinforced waterproofing membrane made up of a compound based on distilled bitumen modified with plastomeric polymers reinforced with non woven polyester fabric.
The reinforcement provides good mechanical properties, while the special compound ensures high flexibility at low temperatures.

Fields of application

Suitable for waterproofing traditional flat or vaulted civil and industrial coverings, metal or prefabricated structures.

Stratigraphy

1. Polypropylene film
2. Compound BPP
3. Non woven polyester fabric
4. Compound BPP
5. Finishing:
- **A.** MARIN PLUS: SAND
- **B.** SLATED MARIN PLUS: NATURAL SLATE



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Technical Features

Parameter	MARIN PLUS	SLATED MARIN PLUS	Unit of measure	Tolerance	Regulations
VISIBLE DEFECTS	Exceeds	Exceeds	Visual	-	EN 1850-1
LENGTH	10	10	m	-1 %	EN 1848-1
WIDTH	1	1	m	-1 %	EN 1848-1
STRAINGHTNESS	Exceeds < 20mm/10m	Exceeds < 20mm/10m	-	-	EN 1848-1
MASS PER UNIT AREA	NPD	4 - 4.5	Kg/m^2	- 5 %	EN 1849-1
THICKNESS	3 - 4	NPD	mm	- 0,2	EN 1849-1
WATERTIGHTNESS	Exceeds > 60	Exceeds > 60	kPa	-	EN 1928:2000
WATERTIGHTNESS AFTER STRETCHING	NPD	NPD	%	-	EN 13897
EXTERNAL FIRE PERFORMANCE	F ROOF	F ROOF	-	-	EN 13501-5
REACTION TO FIRE	E	E	Classe	-	EN 13501-1
TENSILE PROPERTIES *MAXIMUM LOAD AT BREAK* *Longitudinal* *Transversal*	 400 300	 400 300	N/50 mm	 - 20 % - 20 %	EN 12311-1
ELONGATION AT BREAK *Longitudinal* *Transversal*	 35 35	 35 35	%	 - 15 in ass. - 15 in ass.	EN 12311-1
RESISTANCE TO TEARING (nail method) *Longitudinal* *Transversal*	 130 130	 130 130	N	 - 30 % - 30 %	EN 12310-1
RESISTANCE TO DYNAMIC LOADING	700	700	mm	≥	EN 12691
RESISTANCE TO STATING LOADING	10	10	Kg	≥	EN 12730-1
COLD FLEXIBILITY	-10	-10	°C	≤	EN 1109
FLOW RESISTANCE AT ELEVATED TEMPERATURE	120	120	°C	≥	EN 1110
DIMENSIONAL STABILITY	0,3	0,3	%	≤	EN 1107-1
FORM STABILITY UNDER CYCLIC TEMPERAURE CHANGE	NPD	NPD	mm	-	EN 1108
ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	NPD	NPD	ΔT °C	-	EN 1296
ARTIFICIAL AGEING BEHAVIOUR (VISIBLE DEFECTS)	NPD	NPD	-	-	EN 1297
ADHESION OF GRANULES	NPD	NPD	%	- 5 in ass.	EN 12039
WATER VAPOUR PROPERTIES	20000	20000	μ	-	EN 1931
RESISTANCE TO ROOTS	NPD	NPD	-	-	EN 13948
PEEL RESISTANCE	NPD	NPD	N/50 mm	-	EN 12316-1
SHEAR RESISTANCE	NPD	NPD	N/50 mm	-	EN 12317-1

Note: NPD = No Performance Declared according to the EU Directive on Construction Products

It is impossible to ensure uniformity of color of slated products, because the only slate manufacturer makes no warranty about. All self-protected products with slate chippings undergo color changes over time as a function of exposure to atmospheric agents. These color variations tend to conform gradually.
AVAILABLE COLOURS OF SLATE: Natural Gray (Standard), Red, Green, White

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Packaging

PRODUCT	THICKNESS (mm)	WEIGHT (Kg/m^2)	ROLL DIMENSIONS (m)
MARIN	3 - 4	-	1x10
SLATED MARIN PLUS	-	4 - 4,5	1x10

Rolls packed on wooden pallets, wrapped with polyethylene heat-shrinkable caps.

Warnings

Store vertically, protecting them from atmospheric agents and from too high or too rigid temperatures. Avoid overlapping rolls and pallets. The contact with solvents and organic fluids can damage the product.
The application surface should be smooth, dry and clean.
The application surface must be previously treated with a suitable bituminous primer, VELQUA, VELABASE or VELAFONDO GRIPERM to eliminate dust and enhance the adhesion of the membrane. The application surface must not have depressions, to avoid stagnation of rain water and must have a sufficient slope to ensure the smooth flow of precipitation (min 1.5%). In the case of applications in vertical development exceeding 2 m or media in strong slope surfaces apply suitable mechanical fasteners in the head of the cloth, then sealed with the junction of the head.
Apply the product at temperature higher than +5°C.
The installation should be discontinued in case of adverse weather conditions (high humidity, rain, etc.).
In order to increase the performance and durability of the coat it is strongly recommended, in the case of non self-protected membranes with slate protection with acrylic paint or aluminous VELACOLOR, VELUMIN, or painting ultra-reflecting REFLEX +. In this case, it is appropriate to wait, for the application, the uniform oxidation of the surface layer of the membrane (3-6 months depending on the exposure and the climatic period and in any case have to verify the oxidation).

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