



TOP
WATERPROOFING

VELAGUM PLUS – SLATED VELAGUM PLUS

ELASTO-PLASTOMERIC - BITUMINOUS MEMBRANE BPP

Technical data sheet

REINFORCEMENT	NON WOVEN POLYESTER FABRIC
COMPOUND	BITUMEN – PLASTOMER BPP
FINISHING	VELAGUM PLUS: SAND; SLATED VELAGUM PLUS: NATURAL SLATE
APPLICATION METHOD	FLAME WELDING
<u>DESTINATION OF USE</u>	
SLATED VELAGUM PLUS	EN 13707 WATERPROOFING SYSTEM MULTILAYER : FINISHING LAYER EN 13859-1 WATERPROOFING SYSTEM: UNDER TILE
VELAGUM PLUS	EN 13707 WATERPROOFING SYSTEM MULTILAYER: FINISHING LAYER - UNDER LAYER EN 13969 FOUNDATIONS AND UNDERGROUND WALLS
FPC CODE	1370-CPD-0040



Description

Monoreinforced waterproofing membrane made up of a compound of excellent quality based on distilled bitumen modified with elasto-plastomeric polymers reinforced with non woven polyester fabric. Reinforcement and special compounds providing good mechanical properties in terms of excellent elongation at break, high puncture resistance, dimensional stability and high flexibility at low temperatures. It can be supplied either polished or self-protected with natural slate flakes.

Fields of application

Due to its flexibility, it is suitable for waterproofing flat or vaulted civil and industrial coverings, metal or prefabricated structures, vertical retaining walls and foundations.

Stratigraphy

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





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Technical Features

Parameter	VELAGUM PLUS	SLATED VELAGUM 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
STRAIGHTNESS	Exceeds < 20mm/10m	Exceeds < 20mm/10m	-	-	EN 1848-1
MASS PER UNIT AREA	NPD	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	450	450	N/50 mm	- 20 %	EN 12311-1
Transversal	350	350		- 20 %	
ELONGATION AT BREAK					
Longitudinal	40	40	%	- 15 in ass.	EN 12311-1
Transversal	40	40		- 15 in ass.	
RESISTANCE TO TEARING (nail method)					
Longitudinal	130	130	N	- 30 %	EN 12310-1
Transversal	130	130		- 30 %	
RESISTANCE TO DYNAMIC LOADING	700	700	mm	≥	EN 12691
RESISTANCE TO STATING LOADING	10	10	Kg	≥	EN 12730-1
COLD FLEXIBILITY	-15	-15	°C	≤	EN 1109
FLOW RESISTANCE AT ELEVATED TEMPERATURE	110	110	°C	≥	EN 1110
DIMENSIONAL STABILITY	0,3	0,3	%	≤	EN 1107-1
FORM STABILITY UNDER CYCLIC TEMPERATURE CHANGE	NPD	NPD	mm	-	EN 1108
ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	NPD	NPD	ΔT °C	-	EN 1296
ARTIFICIAL AGEING BEHAVIOUR (VISIBLE DEFECTS)	Exceeds	Exceeds	-	-	EN 1297
ADHESION OF GRANULES	-	< 30	%	- 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)
VELAGUM PLUS	3 - 4	-	1x10
SLATED VELAGUM PLUS	-	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).

The above-mentioned values can be subject to update or change. IIVELA S.r.l. reserves the right to modify them at any time without prior notice. For a correct use of our products, see technical specifications. For further information or any special use, please contact our technical department. Any suggestions or technical information provided represent our best knowledge regarding product characteristics and use. Considering different applications and any possible interference of elements beyond our control, the buyer must declare under his own responsibility that the product is suitable for the intended use.