



TOP
WATERPROOFING

SIMUN PLUS - SLATED SIMUN PLUS

POLYOLEFYN POLYMERS BITUMINOUS MEMBRANE BPP

Technical data sheet

REINFORCEMENT

NON WOVEN POLYESTER FABRIC

COMPOUND

BITUMEN – PLASTOMER BPP

FINISHING

SIMUN PLUS: SAND; SLATED SIMUN PLUS: NATURAL SLATE

APPLICATION METHOD

FLAME WELDING

DESTINATION OF USE

SLATED SIMUN PLUS



EN 13707 WATERPROOFING SYSTEM MULTILAYER : FINISHING LAYER

EN 13859-1 WATERPROOFING SYSTEM: UNDER TILE

EN 13707 WATERPROOFING SYSTEM MULTILAYER: FINISHING LAYER - UNDER LAYER

GB14/92057

SIMUN PLUS
FPC CODE

Description

Monoreinforced waterproofing membrane made up of a compound based on distilled bitumen modified with polyolefin copolymers reinforced with non woven polyester fabric having an excellent quality/price ratio. 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. SIMUN PLUS: SAND
 - B. SLATED SIMUN PLUS: NATURAL SLATE





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Review 0.1
01.03.2016

Technical Features

Parameter	SIMUN PLUS	SLATED SIMUN 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	500	500	N/50 mm	- 20 %	EN 12311-1
Transversal	400	400		- 20 %	
ELONGATION AT BREAK					
Longitudinal	35	35	%	- 15 in ass.	EN 12311-1
Transversal	35	35		- 15 in ass.	
RESISTANCE TO TEARING (nail method)					
Longitudinal	140	140	N	- 30 %	EN 12310-1
Transversal	140	140		- 30 %	
RESISTANCE TO DYNAMIC LOADING	800	800	mm	≥	EN 12691
RESISTANCE TO STATING LOADING	15	15	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	-	< 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)
<i>SIMUN PLUS</i>	3 - 4	-	1x10
<i>SLATED SIMUN PLUS</i>	-	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).

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.