



TOP  
WATERPROOFING

## SIMUN PLUS R25

POLYOLEFYN POLYMERS BITUMINOUS MEMBRANE BPP  
REINFORCED NO WOVEN POLYESTER FABRIC - HIGH GRAMMAGE

REINFORCEMENT

NON WOVEN POLYESTER FABRIC - HIGH GRAMMAGE

COMPOUND

BITUMEN – PLASTOMER BPP

FINISHING

SIMUN PLUS R25: SAND

APPLICATION METHOD

FLAME WELDING

DESTINATION OF USE

SIMUN PLUS R25

SIMUN PLUS

FPC CODE



EN 13707 WATERPROOFING SYSTEM MULTILAYER: FINISHING LAYER - UNDER LAYER

EN 13969 WATERPROOFING FOUNDATIONS AND UNDERGROUND WALLS

GB14/92057

# Technical data sheet

### Description

Monoreinforced waterproofing membrane made up of a compound based on distilled bitumen modified with polyolefin copolymers reinforced with high grammage continuous thread non woven polyester fabric. The special compound ensures high flexibility at low temperatures, while the reinforcement provides high mechanical properties in terms of elongation at break, dimensional stability and puncture resistance.

### Fields of application

Suitable for waterproofing structures subjected to high mechanical stress, such as foundations, pitched roof structures, containment basins, bridges, viaducts and metal structures.

### Stratigraphy

1. Polypropylene film
2. Compound BPP
3. Non woven polyester fabric
4. Compound BPP
5. Finishing: SAND





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## Technical Features

Parameter	SIMUN PLUS R25	Unit of measure	Tolerance	Regulations
VISIBLE DEFECTS	Exceeds	Visual	-	EN 1850-1
LENGTH	10	m	-1 %	EN 1848-1
WIDTH	1	m	-1 %	EN 1848-1
STRAIGHTNESS	Exceeds < 20mm/10m	-	-	EN 1848-1
MASS PER UNIT AREA	NPD	Kg/m <sup>2</sup>	- 5 %	EN 1849-1
THICKNESS	4	mm	- 0,2	EN 1849-1
WATERTIGHTNESS	Exceeds > 60	kPa	-	EN 1928:2000
WATERTIGHTNESS METHOD B	200	kPa	-	EN 1928
EXTERNAL FIRE PERFORMANCE	F ROOF	-	-	EN 13501-5
REACTION TO FIRE	E	Classe	-	EN 13501-1
TENSILE PROPERTIES				
MAXIMUM LOAD AT BREAK				
Longitudinal	1200	N/50 mm	- 20 %	EN 12311-1
Transversal	1000		- 20 %	
ELONGATION AT BREAK				
Longitudinal	50	%	- 15 in ass.	EN 12311-1
Transversal	50		- 15 in ass.	
RESISTANCE TO TEARING (nail method)				
Longitudinal	200	N	- 30 %	EN 12310-1
Transversal	200		- 30 %	
RESISTANCE TO DYNAMIC LOADING	1250	mm	≥	EN 12691
RESISTANCE TO STATIC LOADING	20	Kg	≥	EN 12730-1
COLD FLEXIBILITY	-10	°C	≤	EN 1109
FLOW RESISTANCE AT HIGH TEMPERATURE	120	°C	≥	EN 1110
DIMENSIONAL STABILITY	0,3	%	≤	EN 1107-1
FORM STABILITY UNDER CYCLIC TEMPERAURE CHANGE	NPD	mm	-	EN 1108
ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE AT HIGH TEMPERATURE)	NPD	ΔT °C	-	EN 1296
ARTIFICIAL AGEING BEHAVIOUR (VISIBLE DEFECTS)	NPD	-	-	EN 1297
ADHESION OF GRANULES	NPD	%	- 5 in ass.	EN 12039
WATER VAPOUR PROPERTIES	20000	μ	-	EN 1931
RESISTANCE TO ROOTS	NPD	-	-	EN 13948
PEEL RESISTANCE	NPD	N/50 mm	-	EN 12316-1
SHEAR RESISTANCE	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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Review 0.1  
01.03.2016

### Packaging

PRODUCT	THICKNESS (mm)	WEIGHT (Kg/m <sup>2</sup> )	ROLL DIMENSIONS (m)
SIMUN PLUS R25	4	-	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.).

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.