



TOP  
WATERPROOFING

# ANTIROOT VELAGUM

PLASTOMERIC BITUMINOUS MEMBRANE BPP  
WITH ANTIROOT ADDITIVE

Technical data sheet

|                           |  |
|---------------------------|--|
| REINFORCEMENT             | NON WOVEN POLYESTER FABRIC   |
| COMPOUND                  | BITUMEN – PLASTOMER BPP  |
| FINISHING                 | ANTIROOT VELAGUM: SAND   |
| APPLICATION METHOD        | FLAME WELDING  |
| <u>DESTINATION OF USE</u> |  |
| ANTIROOT VELAGUM          | EN 13707 WATERPROOFING SYSTEM MULTILAYER: FINISHING LAYER<br>EN 13696 WATERPROOFING SYSTEM: STOP CAPILLARY RISING DAMP - FOUNDATIONS |
| FPC CODE                  | GB14/92056   |



## Description

Monoreinforced waterproofing membrane made up of a compound based on distilled bitumen modified with plastomeric polymers reinforced with non woven polyester fabric.

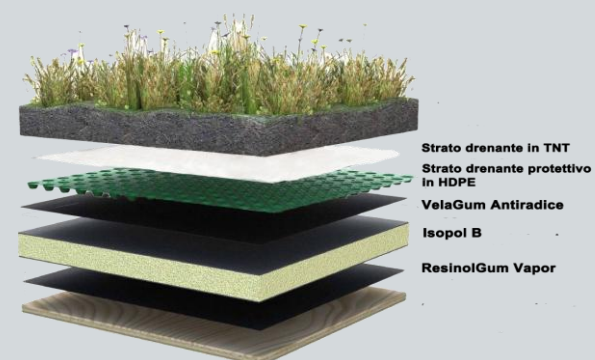
Special compound ensuring high flexibility at low temperatures mixed with special chemical components preventing plant root perforation.

## Fields of application

Suitable as a barrier against plant root penetration.  
Suitable for waterproofing green roofs, hanging gardens, flower pots and buried structures in general.

## Stratigraphy

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





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## Technical Features

| Parameter                                      | ANTIROOT VELAGUM   | 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 AFTER STRETCHING                | NPD                | %                 | -            | EN 13897     |
| EXTERNAL FIRE PERFORMANCE                      | F ROOF             | -                 | -            | EN 13501-5   |
| REACTION TO FIRE                               | F                  | Classe            | -            | EN 13501-1   |
| TENSILE PROPERTIES                             |                    |                   |              |              |
| MAXIMUM LOAD AT BREAK                          |                    |                   |              |              |
| Longitudinal                                   | 650                | N/50 mm           | - 20 %       | EN 12311-1   |
| Transversal                                    | 450                |                   | - 20 %       |              |
| ELONGATION AT BREAK                            |                    |                   |              |              |
| Longitudinal                                   | 35                 | %                 | - 15 in ass. | EN 12311-1   |
| Transversal                                    | 35                 |                   | - 15 in ass. |              |
| RESISTANCE TO TEARING (nail method)            |                    |                   |              |              |
| Longitudinal                                   | 150                | N                 | - 30 %       | EN 12310-1   |
| Transversal                                    | 150                |                   | - 30 %       |              |
| RESISTANCE TO IMPACT                           | NPD                | mm                | ≥            | EN 12691     |
| RESISTANCE TO STATING LOADING                  | NPD                | Kg                | ≥            | EN 12730-1   |
| COLD FLEXIBILITY                               | -10                | °C                | ≤            | EN 1109      |
| FLOW RESISTANCE AT ELEVATED TEMPERATURE        | 120                | °C                | ≥            | EN 1110      |
| DIMENSIONAL STABILITY                          | 0,3                | %                 | ≤            | EN 1107-1    |
| FORM STABILITY UNDER CYCLIC TEMPERATURE CHANGE | NPD                | mm                | -            | EN 1108      |
| ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)  | 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                        | NPD                | μ                 | -            | EN 1931      |
| RESISTANCE TO ROOTS                            | Exceeds            | -                 | -            | 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) |
|------------------|----------------|-----------------------------|---------------------|
| ANTIROOT VELAGUM | 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.).

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