

SAPIRPLAST ANTIROOT R 4

SAPIRPLAST ANTIROOT R 4 is a prefabricated modified polymer-bitumen membranes whose compound is composed of distilled bitumen and elasto-plastomers (APP) and special additive with anti-root properties which does not deteriorate with time, reinforced with a Woven non Woven spunbonded polyester fabric. The modified compound offers excellent ageing properties, cold flexibility, durability and a very high elasticity.

SAPIRPLAST ANTIROOT R 4 provides an excellent barrier against roots, the special additive used in the compound is fully dispersed, this guarantees the membrane is a continuous barrier to root penetration even at the joints. This is an advantage when compared to those membranes having an anti-root reinforcement which allows root penetration at the joints and therefore the requirement of two staggered layers being applied. **SAPIRPLAST ANTIROOT R 4** is not affected by chemical aggression or fertilizers and is not in anyway washed out of the compound. During application the heat does not affect the additive either.

SAPIRPLAST ANTIROOT R 4 is available with either a talc or sand finish on the upper face to prevent the roll from sticking to itself and benefits the unrolling of the product during installation.

The lower face of **SAPIRPLAST ANTIROOT R 4** is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. The correct application temperature is visible from the embossed surface of the membrane which is below the burn off film, when the correct application temperature is reached, this embossment melts also helping vapour diffusion and avoiding blistering.

The burn off film also has a printed 10 cm square which allows the alignment of the side laps quickly and easily during application.

SAPIRPLAST ANTIROOT R 4 offers an excellent static and dynamic puncture resistance, high tensile strength, both longitudinal and transversal, and ultimate elongation.

Technical properties	Measure units	Requirement	Norm
Reinforcement		polyester	
Finish: Upper face:		sand	
Roll length	m	10	EN 1848-1
Roll width	m	1	EN 1848-1
Thickness	mm	4	EN 1849-1
Tensile strength			
Longitudinal / Transversal	N/5 cm	600 / 500	EN 12311-1
Ultimate elongation			
Longitudinal / Transversal	%	35 / 35	EN 12311-1
Tear strength	N	100 / 100	EN 12310-1
Static puncture resistance on foamed extruded polystyrene (30 Kg/m ³)	N	150	EN 12730
Cold flexibility	°C	-10	
Dimensional stability	%	L±0.5T±0.5	EN 1107-1
Resistance to high temperature	°C	+ 135	EN 1110
Root resistance		pass	EN 13948
Watertightness	bar	≥ 2	EN 1928

INSTALLATION & LAP-JOINTS

The **SAPIRPLAST ANTIROOT R 4** polymer-bitumen membranes are applied:

- with a propane gas torch

The suggested application tools required are a knife and rounded tip trowel.

Depending on the application, structure and specification, the **SAPIRPLAST ANTIROOT R 4** polymer-bitumen membranes can be:

- fully bonded
- spot bonded
- loose laid

In case of spot bonding, an area of 100 cm at each side of the end laps should always be fully bonded. Side joints should always be of 100 mm with head joints of 150 mm.

USES

SAPIRPLAST ANTIROOT R 4 is designed to be used in those situations where the membrane is in direct contact with soil, such as roof gardens, underground tunnels and garages, foundations, road structures, etc.

In multi-ply applications, **SAPIRPLAST ANTIROOT R 4** should be the last layer over a polyester reinforced membrane which is applied as the first layer and will be astride and over the first layer joints.

STORAGE

SAPIRPLAST ANTIROOT R 4 polymer-bitumen membranes should be correctly stored in a dry location to prevent deformation and should not be stacked more than two pallets high using wooden spacers between the first and second pallet to distribute the weight.

RECOMMENDATIONS

1. Application surface must be smooth, free of moisture, ponding water and dust.
2. The application area must be provided with an adequate drainage system.
3. The substrate must be primed with a bituminous based product (**PRIMERTEC** or **IDROPRIMER**) and allowed to dry prior to application.
4. Do not apply below +5 °C.
5. Do not apply during adverse weather conditions.
6. In case of application on vertical or considerable slopes, apply proper mechanical fasteners.
7. See our handbook "**Waterproofing with Pluvitec**" for application details.

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The technical data given is based on average values obtained during production.

Pluvitec reserves the rights to change or modify the nominal values without prior notice or advice.

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