Datasheet

STRATAGREEN

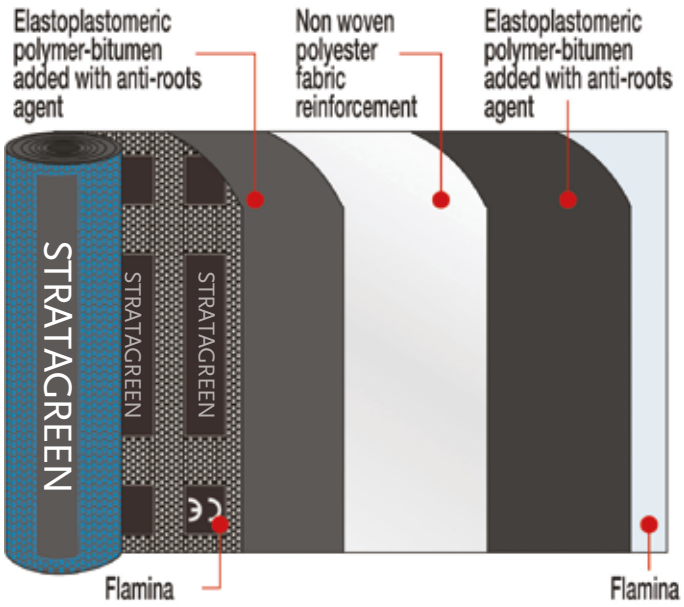
Elastoplastomeric Polymer-Bitumen waterproofing membrane, with an antiroot additive, for protective roof gardens, sunken works and gravel covered roofs.

STRATAGREEN is a root resistant waterproofing membrane, The antiroot properties are obtained by adding phenoxifatty acid ester, a specific antiroot agent, to the polymer-bitumen compound. Once applied, STRATAGREEN forms a continuous barrier against roots.

As it does not contain film or double-reinforced foils, defend antiroot polyester is more flexible and malleable during application. The additive has been developed specifically as a root inhibitor, for both hot-laid bitumen and for torch-laid bitumen membranes, The product comes from thirty years of German experience in the waterproofing industry.

STRATAGREEN is made up of distilled and selected bitumen for industrial use containing high quantity of elsatoplatomeric polymers such as to obtain a “phase inversion” alloy. The continuous phase of this alloy consists of the polymer in which the bitumen is dispersed, where the characteristics are determined by the polymer matrix and not by the bitumen, even if it is the largest ingredient. The performance of bitumen is therefore increased, durability and resistance to high and low temperatures are improved, thus maintaining the bitumen’s already excellent qualities of adhesion and waterproofing.

The reinforcement of the membrane consists of single strand spunbound non-woven polyester fabric, with high basic weight (grammage). This fabric is isotopic, rot-proof, thermally-fixed and boasts: high mechanical resistance, considerable ultimate elongation, excellent resistance to puncturing and laceration. STRATAGREEN has both faces coated with Flamina, the hot-melt film, which stops the rolls of material from sticking together. The reinforcement and the waterproofing mass are resistant to chemical effects of humic acids and fertilizers. STRATAGREEN is used in all waterproofing systems in contact with the ground or where there is a risk of the system being attached by roots.



Installation

It is always applied as the last waterproofing layer in contact with the earth for gardens. When waterproofing roof gardens for instance, it is used as the top layer of a system, the first layer being a polymer-bitumen membrane reinforced with “non-woven” polyester fabric and the second being STRATAGREEN which is placed astride the overlaps of the previous layer and full bonded with the torch.

Handling and storing

When unloading the material avoid any impact with the ground. Do not take up the rolls to the roof without using supporting pallets and safety equipment. Always store the rolls in an upright position, preferably under shelter. In the cold seasons if possible to not stock the product on site during night time. In case of double stacking, use a rigid separation board to spread the load.

Advantages

- Resistant to roots also at the overlaps
- It doesn’t disperse dangerous substances in the environment
- Puncture resistant

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TECHNICAL CHARACTERISTICS

	Standard	T	STRATAGREEN
Reinforcement			"Non-woven" Spunbond polyester fabric
Thickness	EN 1849-1	±0,2	n/a
Roll size	EN 1848-1	≥	1×10 m
Watertightness	EN 1928 – B	≥	60 kPa
Shear resistance L/T	EN 12317-1	–20%	500/300 N/50mm
Maximum tensile force L/T	EN 12311-1	–20%	650/400 N 50 mm
Elongation L/T	EN 12311-1	–15% V.A.	40/40%
Resistance to impact	EN 12691 – A		1250 mm
Resistance to static loading	EN 12730 - A EN 12730 - B		15 kg 20 kg
Dimensional stability L/T	EN 1107-1	≤	–0.30/+0.10%
Flexibility to low temperature	EN 1109	≤	–15°C
Flow resistance at high temperature	EN 1110	≥	120°C
Resistance to root	EN 13948		Test passed
Reaction to fire Euroclass	EN 13501-1		E
External fire performance	EN 13501-5		F roof
Thermal specifications			
Thermal conductivity			0.2 W/mK
Heat capacity			5.20 KJ/K

Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of μ = 20 000 may be considered, unless declared otherwise.

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