SPECIALTY ANTIROOT BITUMINOUS MEMBRANES





ELASTOMERIC BITUMINOUS ANTIROOT WATERPROOFING MEMBRANE

Ultimate waterproofing and antiroot protection in 1 product!

GENERAL DESCRIPTION

Elastomeric waterproofing membrane EshaDien Antiroot B2 is a part of **EshaOxygen Green Roof System**, developed by Esha. It is an elastomeric bituminous membrane with extremely effective antiroot properties. The latter are achieved with the addition and homogeneous dispersion of Preventol B2, a special antiroot component, in the modified bituminous binder during production

Once it is welded on the substrate, **EshaDien Antiroot B2** creates a continuous barrier against plant roots, also along membrane overlapping joints. Preventol B2 remains active throughout the life span of the waterproofing system, and stays remarkably stable even at relatively high or low temperatures.

EshaDien Antiroot B2 is produced from special bitumen, modified with thermoplastic elastomeric materials (SBS). This special composition grants the membrane excellent elasticity, even at extremely low temperatures (-20 °C).

Applications of EshaDien Antiroot B2:

- Waterproofing and Antiroot protection of flat and inclined roofs
- Waterproofing and Antiroot protection of underground works / Foundations





Bituminous Waterproofing membrane without and with antiroot additive Preventol B2.





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DIEN ANTIROOT B2

ELASTOMERIC BITUMINOUS ANTIROOT WATERPROOFING MEMBRANE

CHARACTERISTICS/ADVANTAGES

- Antiroot protection and waterproofing in one product
- Excellent resistance to ultraviolet radiation
- Increased resistance to ageing
- Increased resistance to high temperatures
- Flexibility at low temperatures
- Wide temperature application window
- Very good behavior in a corrosive environment (acids, inorganic salts, air pollutants, ozone, etc.)
- Improved endurance to mechanical deformation
- Advanced weldability to all substrates

STORAGE

Membrane rolls should be stored in their original package, in vertical position, protected from direct sunlight, rain, snow and ice.

NORMS/CERTIFICATIONS

Esha Bituminous membranes comply with **EN 13707, EN 13969** and are certified with **CE No. 1020-CPR-010021423**.

Application to roofs according to **EN 13707** and underground structures according to **EN 13969**.

For all available certificates and certifications please contact Esha Sales Department.

APPLICATION PROCEDURE

Surface preparation

Before application of the membrane it is necessary to prepare properly the substrate surface.

- The substrate surface must be thoroughly cleaned so as to remove all dust, loose matter and remaining oils, and be smooth and dry.
- Recommended surface slope: 1.8% minimum.
- The surface must be primed with Esha Roofcoat No 10 elastomeric bituminous varnish at a consumption of 0,4-0,5 kg/m², or EshaLac 50S bituminous primer at a consumption of 0,3 kg/m².
- Hot oxidized bitumen (consumption: 1,5 3 kg/m²) can be used as an alternative binder onto primed with EshaLac 50-S substrate
- As soon as the surface is dry, the bituminous membrane can be torch applied.

Application of the bituminous membrane

- Membrane application starts from the lowest point of slopes in order to secure unobstructed water flow, when membranes are torched one in parallel to the other.
- The membrane is then rolled and positioned parallel to its adjacent one. It is then rerolled half-way without shifting.

- The bottom surface of the re-rolled part is heated with a propane torch until the bitumen becomes fluid and the membrane is unrolled again to apply evenly on the substrate.
- Longitudinal overlaps must be at least 8 cm while transversal ones must be kept to a minimum of 12 cm.
- Overlapping joints are treated with a metallic lap-joint cylinder in order to apply the optimal pressure in these demanding areas.
- In multiple layer waterproofing, application of the successive layers follows the same procedure and is done in the same direction as the previous ones. Care is taken so that overlaps do not coincide with those of the previous layer.

Application notes

- Application temperature should be higher than 5 °C.
- The waterproofing should be carried out by technicians, properly trained and certified in the bituminous membranes application.

For a more detailed description of bituminous waterproofing membranes' application please contact the Esha Sales Department.

WATERPROOFING MEMBRANES

SPECIALTY ANTIROOT BITUMINOUS MEMBRANES





ELASTOMERIC BITUMINOUS (SBS) ANTIROOT WATERPROOFING MEMBRANE



TECHNICAL CHARACTERISTICS

BITUMINOUS COMPOUND	SBS modified bitumen containing antiroot component PREVENTOL B2
TOP SURFACE FINISH	PE film
BOTTOM SURFACE FINISH	PE film
REINFORCEMENT	High stability polyester
WEIGHT EN 1849-1	4,0 kg/m²
Tensile strength longitudinal/ transversal EN 12311-1	400 / 310 N/50 mm
Elongation longitudinal/ transversal EN 12311-1	30 % / 40 %
Tear resistance longitudinal/ transversal ASTM D-4073-94	150 N / 290 N
Puncture resistance static EN 12730, UEAtc MOAT 27	L3 (15 - 25 kg)
Puncture resistance dynamic EN 12691, UEAtc MOAT 27	I3 (8 mm)
Cold flexibility (film 3mm) EN 1109	-20 °C
Heat resistance EN 1110	110 °C
Antiroot Resistance EN 13948	No penetration. Conforms with Norm.
Waterproofing in hydrostatic pressure 0,1 bar EN 1928	No leakage
Softening point EN 1427	125 °C
Penetration at 25 °C EN 1426	30 - 40 dmm
Dimensional stability EN 1107-1	-0,2 / +0,1 L/T%
Roll Dimensions (W x L) EN 1848-1	1 m x 10 m

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.

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