

WATERPROOFING MEMBRANE

SPECIALTY BITUMINOUS MEMBRANES FOR WATERPROOFING & VAPOR CONTROL



SELF ADHESIVE BITUMINOUS VAPOR CONTROL
WATERPROOFING MEMBRANE (SBS – 25 °C)

2 in 1 product combining waterproofing and ventilation with fast and easy application!

GENERAL DESCRIPTION

ESHAVENT is a self-adhesive bituminous waterproofing membrane that provides most effective ventilating characteristics. It is produced from SBS modified bitumen which exhibits impressive elasticity and enhanced viscoelastic properties even at very low temperatures (-25° C), and special additives that give the membrane self-adhesive properties, hence the ability to stick easily to a suitably prepared substrate without the need of a torch.

ESHAVENT is reinforced with glass-fleece, its top cover is quartz sand and its undercover a fully-adhered perforated aluminium foil or a perforated glass-fleece. The undercover is protected by a siliconized removable PE film.

The perforated aluminium foil (or the perforated glass-fleece) is an excellent under layer to accommodate the thermal expansions of the substrate and create vapor pressure relief areas. The perforations in the aluminium foil (or glass-fleece) allow the special type of polymer modified bitumen to stick to the surface beneath. This way **ESHAVENT** creates a "regular spot-welding" system. **ESHAVENT** is a so-called Thermo-Adhesive roofing membrane, meaning that the application of **ESHAVENT** to the sub base is fully completed when the top waterproofing layer is torched on it.

ESHAVENT is applied:

- As a stand-alone waterproofing system, since it possesses waterproofing and ventilating properties. It should only be protected by a cover layer (e.g. tiles, aggregates).
- As a first waterproofing and ventilating layer, in a system of two waterproofing layers for flat and inclined roofs.
- In re-roofing works.

NORMS/CERTIFICATION

- Standards: **EN 13707, EN 13969**
- Approved with **CE No. 1020-CPR-010021423**
- Waterproofing application to terraces according to **EN 13707**

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



STORAGE

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

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APPLICATION PROCEDURE

Surface preparation

Before the application of the membrane it is necessary to properly prepare 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: 1.5% minimum.
- The surface must be primed with **ESHA ROOF-COAT No10** 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.
- As soon as the surface is dry, **ESHAVENT** can be applied.

Application

- **ESHAVENT** application starts from the lowest point of slopes in order to secure unobstructed water flow, when membranes are placed one in parallel to the other.
- As the membrane is self-adhesive there is no need of a torch to weld it on the substrate. One simply needs to properly align **ESHAVENT** roll, remove the

siliconized PE film protect cover and apply manual pressure to the membrane in order to attach it fully to the substrate surface.

- Longitudinal and transversal membrane overlaps should be 10 cm.
- **ESHAVENT** covers only the horizontal surfaces up to a distance of 30 cm from any vertical surface.
- Vapor circulates below **ESHAVENT** layer and is directed to roof ventilators, applied in later steps.
- The following bituminous waterproofing layers which are torch applied, are positioned in the same direction as **ESHAVENT** but with a parallel movement of 50 cm relative to **ESHAVENT** applied strip.

Application notes

- Application temperature should be higher than 5° C.
- During cold conditions and if needed, hot air can rejuvenate the self adhesive properties of **ESHAVENT**.
- 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.

CHARACTERISTICS/ADVANTAGES

- **ESHAVENT** is easy to apply and contributes to a complete, labor and cost-saving, long-lasting roofing system. It is also a stand-alone membrane since it provides both, waterproofing and ventilation at the same time.
- The aluminium foil (or glass-fleece) provides an effective vapor escape route and prevents blistering under all circumstances. It also functions as a heat-shield to underlying roof insulation while the top layer is being torched on.
- **ESHAVENT** adheres to practically all kinds of surfaces, including aluminium laminated insulation materials.
- **ESHAVENT** seals the roof immediately, even before the top layer is applied, which is favorable under rapidly changing weather conditions during waterproofing works.



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TECHNICAL CHARACTERISTICS

Characteristics	Standard	T	Normal values	Unit
Length	EN 1848-1	± 0.02	10 or 15 or 20	m
Width	EN 1848-1	---	1	m
Weight	EN 1849-1	± 0.2	2.0 - 4.0	kg/m ²
Softening Point	EN 1427	± 10	105	°C
Penetration at 25°C	EN 1426	---	75 - 95	dmm
Tensile strength L/T	EN 12311-1	± 20%	300/200 glass fleece	N/50mm
Elongation L/T	EN 12311-1	± 15%	2/2 glass fleece	%
Tear resistance L/T	ASTM D4073-94	± 20	100/300	N
Static puncture resistance (concrete)	EN 12730/ UEAtc MOAT 27	≥	L2 (7 - 15) glass fleece	kg
Dynamic puncture resistance (concrete)	EN 12691/ UEAtc MOAT 27	≥	I3 glass fleece	Φ 10mm
Flexibility to low temperatures	EN 1109	± 15	-25	°C
Water tightness	UEAtc / EN 1928	≥	2	bar
Reaction to Fire	EN 13501-1	≥	F	---
Dimensional stability L/T	EN 1107-1	≥	-0.1/+0.1 glass fleece	%
Heat Resistance	EN 1110	<	100	°C

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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