we know how
since 1962

WATERPROOFING MEMBRANES
SPECIALTY BITUMINOUS MEMBRANES
FOR WATERPROOFING & VAPOR CONTROL

ESHAVENT

SELF ADHESIVE BITUMINOUS VAPOR CONTROL
WATERPROOFING MEMBRANE (SBS – 20 °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 (-20°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 film 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, for flat and inclined roofs.
- In re-roofing works.

STORAGE

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

CHARACTERISTICS / ADVANTAGES

- ESHAVENTis 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 heatshield to underlaying 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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APPLICATION PROCEDURE

Surface preparation

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

The substrate surface must be throroughly cleaned so as to remove all dust, loose matter and remaing oils and be smooth and dry. Recommended durface slope: 1.5% minimum.

The surface must be primed with ESHA ROOFCOAT No10 elastomeric bituminous varnish at a consumption of 0.4-0.5 lt/m^2, or ESHALAC 50S bituminous primer at a consumption of 0.3 lt/m^2.

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-advesive 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..

NORMS/CERTIFICATION

Product Declaration of conformity according to **EN 13707, EN 13969** standards. Product approved according to **CE No. 1020-CPR-010021423.** Application to roofs according to **EN 13707**

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

Today, Esha is the No. 1 producer of bituminous waterproofing membranes in Greece, while also offering more than 500 specialized products (emulsions and solutions for surface protection and waterproofing, joint sealing materials, acrylics, epoxies, polyurethanes, polysulfides, modified road asphalt (elastomers, plastomers, recycled tires), asphalt road emulsions, asphalt bridge waterproofing materials, polyurethane thermal insulation boards, etc.).

See the products and their applications on our new website
www.esha.gr

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TECHNICAL CHARACTERISTICS

Characteristics	T	Perfomance	Unit	Test Specification
Length	-	10 or 15	m	EN 1848-1
Width		1	m	EN 1848-1 m
Mass	± 5%	3	kg/m^2	EN 1849-1 m
Type of bituminous compound	-	-	Elastomeric modified bitumen (SBS)	-
Thickness	± 5%	3	mm	EN 1849-1 mm
Softening point	±10	125	^{0}C	EN 11427
Penetration at 25^{0}C	± 5	85	dmm	EN 11426
Tensile strenght L/T	± 20%	450/300	N/50 mm	EN 12311-4
Elogation L/T	± 15%	F30/40	%	EN ISO 2592
Static puncture resistance	-	L3 (15-25)	kg	EN 12730, UEAtc MOAT 27
Dynamic puncture resistance	-	13(ø 8)	mm	EN 12691, UEAtc MOAT 27
Flexibility to low temperatures	± 5%	-20	^{0}C	EN 1109
Water pressure resistance (72h, 2bar)	≥	Pass	bar	UEAtc / EN 1928
High temperature resistance	≥	110	^{0}C	EN 1110
Flame resistance		F		EN 13501-1
Dimensional stability	≤	-0.15/+0.1	%	EN 1107-1
Heat contactivity	-	0.2	W/mK	