



## **WATERPROOFING MEMBRANES**

### **SPECIALTY BITUMINOUS MEMBRANES FOR WATERPROOFING & VAPOR CONTROL**

#### **ESHAVENT® - SELF ADHESIVE VAPOR CONTROL & BITUMINOUS WATERPROOFING MEMBRANE (SBS – 15 °C)**

#### **ONE PRODUCT COMBINING WATERPROOFING AND VENTILATION PROPERTIES WITH VERY EASY APPLICATION!**

### **GENERAL DESCRIPTION**

**EshaVent** is a self-adhesive bituminous waterproofing membrane that possesses most effective ventilating characteristics. It is produced from SBS modified bitumen which exhibits impressive elasticity and enhanced viscoelastic properties even at very low temperatures (-15 °C), and special additives that give the membrane self-adhesive properties, hence the ability to stick very easily to a suitably prepared substrate without the need of a torch.

EshaVent weights 1,9 kg/m<sup>2</sup>, 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 paper.

The perforated aluminium foil 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 allow the special type of polymer modified bitumen to stick to the surface beneath. This way EshaVent is applied by means of "regular spot-welding". EshaVent is a so-called Thermo-Adhesive roofing membrane, meaning that the fastening of EshaVent to the sub base is fully completed when the top waterproofing layer is torched on.

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 its top cover is not UV-resistant.
- As a first waterproofing and ventilating layer, in a system of two waterproofing layers for flat and inclined roofs.
- In Re-roofing works.

### **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 possesses two functions, waterproofing and ventilation.

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EN ISO 9001: 2008

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- The aluminium foil provides an effective vapor escape route and prevents blistering under all circumstances. It also functions as a heatshield 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 application.

### **NORMS/CERTIFICATIONS**

Standards: **EN 13707, EN 13969.**

Approved with **CE No. 1020-CPD-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.

### **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 Roofcoat No 10 elastomeric bituminous varnish at a consumption of 0,4-0,5 Kg/m<sup>2</sup>, or EshaLac 50S bituminous primer at a consumption of 0,3 Kg/m<sup>2</sup>.
- As soon as the surface is dry, EshaVent can be applied.

#### **Application of EshaVent:**

- 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 30cm from any vertical surface.
- Vapor circulates below EshaVent layer and is directed to roof ventilators, applied in later steps.

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- 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.

#### 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.*

#### **TECHNICAL CHARACTERISTICS**

<b>BITUMINOUS COMPOUND</b>	Elastomeric self-adhesive bitumen
<b>TOP SURFACE FINISH</b>	Quartz sand
<b>BOTTOM SURFACE FINISH</b>	Fully-adhered perforated aluminium foil or perforated glass-fleece + Silicone release PE film
<b>REINFORCEMENT</b>	Glassfleece 50 gr/m <sup>2</sup>
<b>WEIGHT</b> EN 1849-1	1,9 kg/m <sup>2</sup>
<b>THICKNESS</b> ASTM D-146	1,8 mm
Tensile strength longitudinal/ transversal EN 12311-1	280 / 300 N/50 mm
Elongation longitudinal/ transversal EN 12311-1	1,5 % / 1,5 %
Cold flexibility (film 3mm) EN 1109	-15 °C
Softening point EN 1427	125 °C
Penetration at 25 °C EN 1426	35 dmm
Surface percentage covered by perforated aluminium foil	70%
Roll Dimensions (W x L) EN 1848-1	1 m x 15 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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