



# STICK P-AL

SELF-ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANE WITH ALUMINIUM TOP COVER

### GENERAL DESCRIPTION

**ESHASTICK P-AL** self-adhesive membranes are advanced bituminous waterproofing felts made of SBS polymer 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 very easily to a suitably prepared substrate without the need of a torch. They are used in waterproofing of common structural elements without the use of a torch.

**ESHASTICK P-AL** membranes are produced with Polyester or Glassfleece reinforcement.

They are used in a wide application field:

- On concrete sidewalls for underground waterproofing.
- On flat roofs, either under the thermal insulation element (inverted roofs), or above the thermal insulation.
- Directly on both rigid polyurethane prefabricated boards and extruded polystyrene boards.
- On metal or wood surfaces.
- To both metal and concrete pipes for protection and waterproofing.

### CHARACTERISTICS/ADVANTAGES

- Excellent adhesion to rigid and smooth pre-primed surfaces.
- Quick and easy application, hence lower application cost.
- Being cold-applied and installed without the use of naked flames **ESHASTICK P-AL** offers higher safety level on the job site.
- Extremely high puncture resistance.
- Excellent elasticity - elongation at tensile break of the compound exceeding 800%.
- Endurance to low temperatures (- 25 °C)
- Very good resistance to solar radiation and ozone exposure.
- Enhanced resistance to weathering.
- Elastic recovery value for the membrane's modified compound exceeds 90%.

### APPLICATION PROCEDURE

- Surfaces should be smooth, dry and dust free, clean from oil, rust and foreign matter.
- The surface is primed with EshaLac 50S. Primer is cold applied as supplied, by brush, roller or spray gun and is allowed to dry.  
Primer consumption:  
-Metal surface: 150-250 gr/m<sup>2</sup> in one layer  
-Concrete surface: 250-450 gr/m<sup>2</sup> in one layer
- **ESHASTICK P-AL** self-adhesive waterproofing membrane is then applied and press-adhered onto the dry and primed surface, after peeling off its protective siliconized PE film.
- Overlapping of the membrane sheets should not be less than 8 cm. Waterproof sealing of the seams is achieved by applying local pressure with a metal cylinder or a round wooden piece.

### STORAGE

Membrane rolls should be stored in their original package, in vertical position, protected from direct sunlight, rain, snow and ice. In cold weather it is recommended that the rolls should be kept at a minimum temperature > 5°C for at least 10 hours before installation.

Avoid strong and sudden roll impact, as well as fast unrolling during installation, transportation and storage, at low temperature conditions.

At temperatures below 5° C, the adhesion properties of **ESHASTICK P-AL** are enhanced by gently heating the membrane's tacky surface with a hot-air gun or torch.

- For vertical underground walls we recommend mechanical fixing of the membrane's upper end, every 3 m.

### 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.*



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### TECHNICAL CHARACTERISTICS

Characteristics	Standards	T	Nominal Value			Unit
Bituminous Compound	--	--	Elastomeric (SBS) bitumen with self adhesive properties			--
Length	EN 1848-1	±0,1	10			m
Width	EN 1848-1	±0,02	1			m
Top Surface Finish	--	--	Aluminium foil			--
Bottom Surface Finish	--	--	Silicone Release PE film			--
Reinforcement	--	--	Non woven polyester	Polyester combined with glass yarns	Glass Fleece	--
Weight	EN 1849-1	--	3-5			Kg/m <sup>2</sup>
Softening Point	EN 1427	≥	105			°C
Penetration at 25 °C	EN 1426	± 10	85			dmm
Elastic recovery of the bituminous binder of the membrane	EN 13398	≥	90			%
Elastic recovery after the oxidative aging, EN 12607-1	EN 13398	≥	90			%
Tensile strength L/T	EN 12311-1	± 20%	450/300	560/420	300/200	N/50mm
Elongation L/T	EN 12311-1	± 15%	30/40	45/55	2/2	%
Tear resistance L/T	ASTM D4073-94	± 15%	250/300	250/400	100/100	N
Static puncture resistance (concrete)	EN 12730/UEAtc MOAT27	--	L4 (25+)	L4 (25+)	L3 (15-25)	Kg
Dynamic puncture resistance (concrete)	EN 12691/UEAtc MOAT27	--	I3 (Φ 8)	I3 (Φ 8)	I3 (Φ 10)	mm
Flexibility to low temperatures	EN 1109	± 5	-25			°C
Heat Resistance	EN 1110	<	100			°C
Dimensional stability L/T	EN 1107-1	≤	-0.15 / +0.2	-0.15 / +0.2	-0.1 / +0.1	%

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

### NORMS/CERTIFICATIONS

**ESHASTICK P-AL** 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.

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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