



ESHASTICK ALPES

SELF-ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANE WITH POLYESTER ALUMINIUM TOP COVER

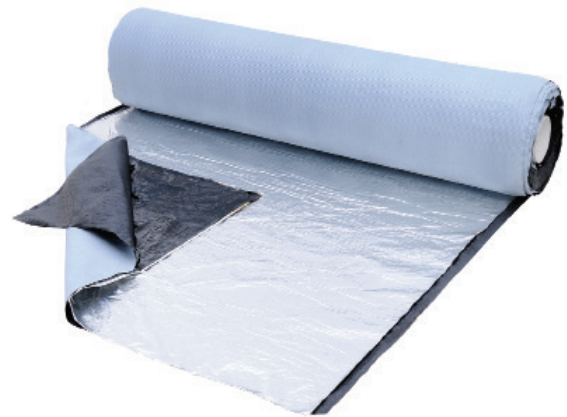
GENERAL DESCRIPTION

ESHASTICK ALPES is an advanced-technology self-adhesive elastomeric bituminous waterproofing felt. 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 very easily to a suitably prepared substrate without the need of a torch.

ESHASTICK ALPES is top finished with Polyester Aluminium sheet with high elasticity and mechanical strength and bottom finish with silicon release PE film.

Typical applications of **ESHASTICK ALPES**:

- Waterproofing of vertical surfaces exposed to the sun.
- Final layer of flat roofs' waterproofing.
- Directly on both rigid polyurethane metallic prefabricated boards and extruded polystyrene boards.
- Absolute vapor barrier due to its aluminium top cover.
- Radon and Methane gas barrier.
- To both metal and concrete pipes for waterproofing and protection from UV radiation.



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 ALPES** offers higher safety level on the job.
- Extremely high puncture resistance
- Excellent elasticity of bituminous compound - elongation at tensile break exceeding 1000%.
- Endurance to very low temperatures
- Enhanced resistance to weathering.
- Very good resistance to solar radiation and ozone exposure.

APPLICATION PROCEDURE

- Surfaces should be smooth, dry and dust free, clean from oil, rust and foreign matter (Recommended substrate relative moisture $\leq 6\%$).
- The surface must be primed with solvent based **ESHALAC 50S** bituminous varnish by brush, roller or spray gun and is allowed to dry.
Primer consumption:
-Metal surface : 150-250 gr/m² in one layer
-Concrete surface: 250-450 gr/m² in one layer
- **ESHASTICK ALPES** self-adhesive waterproofing membrane is then applied and press-adhered onto the dry and primed surface, after peeling off its protective siliconized PE paper.
- Overlapping of the membrane sheets should not be less than 5 cm. Waterproof sealing of the seams is achieved by applying local pressure with a metal cylinder or a round wooden piece.

NORMS/CERTIFICATIONS

ESHASTICK ALPES 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.

- At temperatures below 5° C, the adhesion properties of **ESHASTICK ALPES** 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.



STICK ALPES

SELF-ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANE WITH POLYESTER ALUMINIUM TOP COVER

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.

TECHNICAL CHARACTERISTICS

Characteristics	Standards	T	Nominal Value	Unit
Bituminous Compound	--	--	Elastomeric (SBS) bitumen with self adhesive properties	--
Length	EN 1849-1	±0,1	20	m
Width	EN 1849-1	±0,02	1	m
Top Surface Finish	--	--	Polyester reinforced aluminium film	--
Bottom Surface Finish	--	--	Silicone Release PE film	--
Reinforcement	--	--	Glass Fleece	--
Thickness	EN 1849-1	± 0.2	1.2	mm
Softening Point	EN 1427	≥	105	°C
Penetration at 25 °C	EN 1426	--	75 - 95	dmm
Tensile strength L/T	EN 12311-1	± 20%	300/200	N/50mm
Elongation L/T	EN 12311-1	± 15%	10/10	%
Tear resistance L/T	ASTM D4073-94	± 15%	130/170	N
Bituminous compound elongation at break	EN 12311-1	≥	1000	%
Static puncture resistance (concrete)	EN 12730/UEAtc MOAT27	--	L3 (15 - 25)	Kg
Dynamic puncture resistance (concrete)	EN 12691/UEAtc MOAT27	--	I3 (Ø 8)	mm
Flexibility to low temperatures (film 3mm)	EN 1109	± 5	-25	°C
Vapor transmission rate Sd	EN 1931	≥	1500	m
Permeability to Radon gas			0.56 x 10 ⁻¹²	m ² /s
Permeability to Methane gas at 23°C & 0% HR		≤	5	cc/m ² × 24h × atm
Heat Resistance	EN 1110	<	100	°C
Water tightness (60 KPa, 24 h)	UEAtc/EN 1928	--	Passed	--
Vapor permeability coefficient	EN 1931	>	20000	--
Reaction to fire	EN 13501-1	--	F	--
Dimensional stability L/T	EN 1107-1	≤	-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.

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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