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since 1962

WATERPROOFING MEMBRANES

SELF-ADHESIVE
BITUMINOUS MEMBRANES

ESHASTICK ALPES

Self-adhesive elastomeric bituminous
waterproofing membrane
with polyester aluminium top cover



GENERAL DESCRIPTION

ESHASTICK ALPES 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 selfadhesive properties, hence the ability to stick very easily to a suitably prepared substrate without the need of a torch.

ESHASTICK ALPES, has a top finish of polyester aluminium sheet with high elasticity and mechanical strength and bottom finish with silicon release PE film.

ESHASTICK c offers a variety of applications and high quality solutions in every problem of waterproofing, like:

- 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.
- On metal and wooden surfaces (tiled roofs) and generally on surfaces where the atmosphere does not allow the use of a torch
- 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.

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 temperature $>5^{\circ}\text{C}$ 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.

CHARACTERISTICS/ADVANTAGES

As a result of their high quality **ESHASTICK ALPES** membranes offer the following 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 safer working conditions.
- ▶ Extremely high puncture resistance.
- ▶ High reflection in sunlight leading to the phenomenon of a **Cool Roof** under a roof 5°C or more.
- ▶ Excellent elasticity of bitouminous binder - Elongation at break over 1000%.
- ▶ Endurance to low temperatures (-25°C)
- ▶ Endurance to severe weather conditions.
- ▶ Very good resistance to solar radiation and ozone exposure.

Alfa-Alfa Energy S.A.

ATHENS | CENTRAL OFFICES-FACTORY: Aspropyrgos Beach, 193 00 Aspropyrgos, Attica | T. +30 210 5518 700
THESSALONIKI | OFFICES-WAREHOUSE: 18 Epirou Street, 570 09 Kalochoi | T. 2310 783 725
www.eshagr.gr • sales@eshagr.gr



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APPLICATION PROCEDURE

Surface preparation

Before application of the membrane it is necessary to prepare properly the substrate surface. The substrate surface must be thoroughly cleaned, remove all dust, loose matter and remaining oils in order to be smooth and dry. Recommended substrate relative moisture $\leq 6\%$.

The surface is primed with **ESHALAC 50S**. Primer is cold applied as supplied, by brush, roller or spray gun and is allowed to dry.

Before use, stir the primer well.

Primer consumption:

-Metal surface: $150-250 \text{ gr/m}^2$ in one layer

-Concrete surface: $250-300 \text{ gr/m}^2$ in one layer

Application of the bituminous membrane

ESHASTICK ALPES self-adhesive waterproofing membrane is then applied and press-adhered onto the dry and primed surface, after peeling off its protective silicon release paper.

Overlapping of the membrane sheets should not be less than 5 cm at the edges and 15cm on the top. Waterproof sealing of the seams is achieved by applying local pressure with a seam roller **Roller Pressure Seamer 8Kg** or rounded wood piece, being very careful on details such as corners, edges, connections and overlaps.

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 application in vertical underground surfaces, mechanical fastening of the upper edge of the membrane every 3m is recommended.

Application notes

Application temperature should be higher than 5°C .

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 Esha Sales Department.

CERTIFICATION

ESHASTICK ALPES complies with **EN 13707**, **EN 13969** and is certified with **CE No.1020-CPR-010021423**. Application to roofs/decks according to **EN 13707** and underground structures according to **EN 13969**.

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	Standard	T	Normal values	Units
Length	EN 1848-1	± 0.1	20	m
Width	EN 1848-1	± 0.02	1	m
Upper surface covering	---	---	Polyester reinforced aluminium film	---
Bottom surface covering	---	---	Silicone Release PE film	---
Thickness	EN 1849-1	---	1.2	mm
Reinforcement	---	---	Glass Fleece	---
Type of bituminous binder	---	---	Elastomeric (SBS) self adhesive bitumen	---
Softening Point	EN 1427	± 5	105	°C
Penetration at 25°C	EN 1426	± 10	75 - 95	dmm
Elastic recovery of the bituminous binder	EN 13398	≥	90	%
Elastic recovery of the bituminous binder after ageing	EN 13398	≥	90	%
Bituminous compound elongation at break	EN 12311-1 EN 12311-1	≥	1000	%
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 D-4073-94	± 15%	130/170	N
Static puncture resistance (concrete)	EN 12730/ UEAtc MOAT 27	---	L3 (15 - 25)	kg
Dynamic puncture resistance (concrete)	EN 12691/ UEAtc MOAT 27	---	I3	Φ 8 mm
Heat Resistance	EN 1110	<	100	°C
Flexibility to low temperatures	EN 1109	± 5	-25	°C
Water tightness (24 h, 60 bar)	UEAtc / EN 1928	---	Passed	---
Vapor permeability coefficient	EN 1931	≥	20000	---
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 x24h/atm
Reaction to Fire	EN 13501-1	---	F	---
Dimensional stability L/T	EN 1107-1	± 10%	-0.1/0.1	%

Fluctuations in nominal values are in accordance with the relevant standards. The manufacturer reserves the right to modify the properties of its products. Esha provides information and, in particular, recommendations regarding the application and end use of its products based on its current knowledge and experience, when the products are stored, used, and applied under normal conditions. In practice, there are variations in substrates and local application conditions, so Esha cannot guarantee the success of the application of any material. It is recommended that the user test the application of the material under the local application conditions.