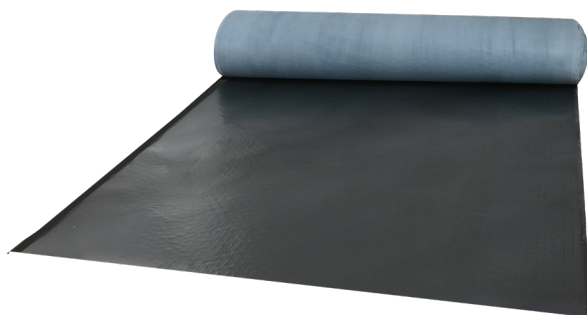


ESHASTICK 3000-X

Self-adhesive elastomeric bituminous
waterproofing membrane
with Cross Linked HDPE top cover



GENERAL DESCRIPTION

ESHASTICK 3000-X is an advanced-technology self-adhesive elastomeric bituminous waterproofing membrane. It is produced from SBS modified bitumen which exhibits impressive elasticity and enhanced viscoelastic properties even at extremely 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 3000-X, has a top finish of Cross Laminated High Density Polyethylene Film (HDPE) with enhanced mechanical properties also functioning as its reinforcement, and a bottom finish of silicon release film.

Ideal for waterproofing of rigid structural elements without the use of torch.

ESHASTICK 3000-X offers a variety of applications and high quality solutions in every problem of waterproofing, like:

- Waterproofing of concrete foundation and underground sidewalls.
- Radon and Methane Gas Barrier, due to its top finish it is highly resistant to tearing and perforation..
- Waterproofing of flat roofs, either under the thermal insulation element (inverted roofs), or above the thermal insulation.
- Directly on both rigid polyurethane metallic prefabricated boards and extruded polystyrene boards.
- On metal or wood surfaces (tiled roofs) and generally on surfaces where conditions do not allow the use of a blowtorch (e.g., in factories or warehouses where flammable substances are produced or stored)..
- For protecting underground metal or concrete pipes from corrosion, or generally where protection from chemicals and waste is required.
- On green roofs, planters, vertical walls for waterproofing and root protection, it complies with DIN4062/UNE53420 (resistance to root penetration - Lupine Test).

CHARACTERISTICS/ADVANTAGES

As a result of their high quality **ESHASTICK 3000-X** 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 3000-X** offers safer working conditions.
- ▶ Extremely high puncture resistance.
- ▶ Excellent elasticity of bituminous binder - Elongation at break over 1000%.
- ▶ Endurance to extreme temperatures (-25 to +80° C).
- ▶ Endurance to severe weather conditions.
- ▶ Radon and Methane gas transmittance barrier
- ▶ Antirroot properties in compliance with DIN 4062 / UNE 53420

Alfa-Alfa Energy S.A.

ATHENS | CENTRAL OFFICES-FACORY: 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.esh.gr • sales@esh.gr



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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.

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: $150\text{--}250\text{ gr/m}^2$ in one layer
- Concrete surface: $250\text{--}300\text{ gr/m}^2$ in one layer

Application of the bituminous membrane

ESHASTICK 3000-X 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 3000-X** 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 3000-X 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 Bridge Decks according to **EN 14695**.

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



EPD certification is an independent assessment of a product's environmental impact throughout its entire life cycle, from initial production to disposal or recycling at the end of its life cycle. It contributes points to some of the leading green building programs, such as LEED certified building projects.

WATERPROOFING MEMBRANES

SELF-ADHESIVE
BITUMINOUS MEMBRANES

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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	---	20	m
Width	EN 1848-1	---	1	m
Upper surface covering	---	---	High strength cross laminated HDPE film	---
Bottom surface covering	---	---	Peel of siliconized PE film	---
Thickness	EN 1849-1	---	1.5 - 2.0	mm
Reinforcement	---	---	Glass fleece	---
Type of bituminous binder	---	---	Elastomeric self adhesive bitumen	---
Root resistance (Lupine Test)	DIN 4062/UNE53420		Without penetration after 8 weeks	
Softening Point	EN 1427	± 5	105	°C
Penetration at 25°C	EN 1426	---	75 - 95	dmm
Elastic recovery of the bituminous binder	EN 13398	≥	90	%
Elastic recovery of the bituminous binder after ageing	EN 13398	≥	90	%
Elongation at break of the bituminous binder	EN 12311-1	≥	1000	%
Tensile strength L/T	EN 12311-1	± 20%	300/300	N/50mm
Elongation L/T	EN 12311-1	± 15%	180/150	%
Tear resistance L/T	ASTM D-4073-94	± 15%	220/170	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 8mm
Flexibility to low temperatures	EN 1109	± 5	-25	°C
Water tightness (72 h, 2 bar=200 kPa)	UEAtc / EN 1928		Passed	
Vapor permeability coefficient	EN 1931	≥	20000	---
Permeability to Radon gas	---	---	5,7 x 10 ⁻¹²	m ² /s
Permeability to Methane gas at 23°C & 0% HR	---	≤	5	cc/m ² x 24h x 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.