



ESHASTICK 3000X

SELF-ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANE WITH HDPE CROSS LAMINATED TOP FINISH

Underground structures waterproofing self adhesive/self protected waterproofing membrane.

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.

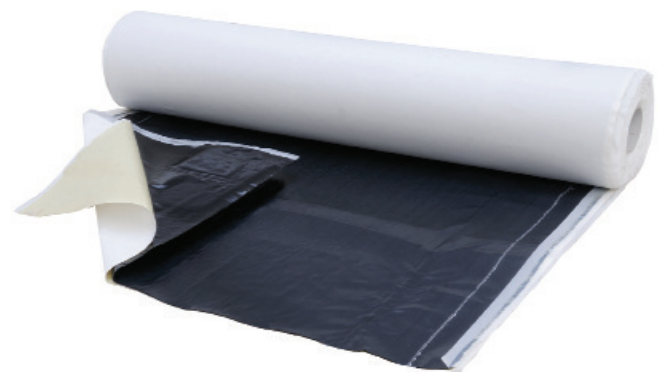
ESHASTICK 3000-X, has a top finish of Cross Laminated High Density Polyethylene Film (HDPE) with enhanced mechanical properties also functioning as its reinforcement, and a bottom finish of silicon release film.

ESHASTICK 3000-X self-adhesive membranes have a wide application field:

- Great elasticity (ability to stretch and recoil to its initial dimensions). Elastic recovery value for the membrane's modified compound exceeds 90%.
- Waterproofing of concrete foundation and underground sidewalls.
- Due to its top finish it is highly resistant to tearing and perforation.
- Radon and Methane Gas Barrier.
- 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.
- To both metal and concrete pipes for protection and waterproofing.
- Waterproofing of garden pots.

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 3000-X** offers higher safety level on the job.
- Extremely high puncture resistance
- Endurance to extreme temperatures (-25 to +80° C)
- Radon and Methane gas transmittance barrier
- Root Barrier



NORMS/CERTIFICATION

- Certified according to **EN/DIN 18195, EN 13969 type A & T**
- Certified with **CE No. 1020-CPR-010021423**
- Certified with **CE 0120-FPC GB 06/69900**

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. For correct storage, a dry, covered place with temperature conditions between +5 to +40 °C is recommended. The product is not affected by frost conditions.



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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/m² in one layer
- Concrete surface: 250-300 gr/m² in one layer

- **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 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.

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.





Esha STICK 3000X

SELF-ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANE WITH HDPE CROSS LAMINATED TOP FINISH

Characteristics	Standard	T	Norminal values	Unit
Length	EN 1849-1	---	20	m
Width	EN 1849-1	---	1	m
Upper surface covering	---	---	High strength cross laminated HDPE film	---
Bottom surface covering	---	---	Peel off siliconized PE film	---
Thickness	EN 1849-1	---	1.5 - 2.0	mm
Weight	EN 1849-1	± 10%	---	Kg/m ²
Reinforcment	---	---	Glass fleece	---
Type	---	---	Elatomeric self adhesive bitumen	---
Softening Point	EN 1427	>	105	°C
Penetration at 25°C	EN 1426	---	75 - 95	dmm
Bituminous compound elongation at break	EN 12311-1	≥	1000	%
Tensile strength L/T	EN 12311-1	± 20%	300/300	N/50mm
Elongation L/T	EN 12311-1	± 15%	200/200	%
Tear resistance L/T	ASTM D-4073-94	± 15%	175/175	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	≤	-25	°C
Water tightness (72h)	UEAtc / EN 1928		Passed	
Vapor permeability coeficient	EN 1931	≥	20000	---
Permeability to Radon gas	---	---	5,7 × 10 ⁻¹²	m ² /s
Permeability to Methane gas at 23°C & 0% HR	---	≤	5	cc/m ² × 24h × atm
Reaction to Fire	EN 13501-1	---	F	---
Dimensional stability L/T	EN 1107-1	± 10%	-0.1/+0.1	%
Application temperature			+10 to +35	°C
Service temperature	---	---	-25 to +80	°C

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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