



ESHASTICK PP

SELF-ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANE WITH PE FILM TOP COVER

GENERAL DESCRIPTION

ESHASTICK PP self-adhesive membranes are advanced bituminous waterproofing membranes made of SBS polymer modified bitumen, which exhibits impressive elasticity and enhanced viscoelastic properties even at very low temperatures (-22°C), and special additives that give the membrane self-adhesive properties, hence the ability to stick easily to a suitably prepared substrate without the need of torch.

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

ESHASTICK PP membranes are produced with Polyester or Glassfleece reinforcement, PE film as top and bottom surface finishes and weights from 1 to 4 kg/m².

They are used in a wide application field:

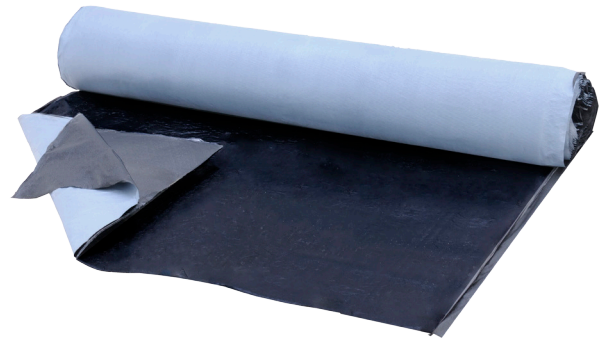
- On concrete sidewalls for underground waterproofing.
- On flat roofs, either under the thermal insulation element (inverted roofs), or above the thermal insulation.
- Directly on both rigid polyurethane prefabricated boards and extruded polystyrene boards as first waterproofing layer for torch on bituminous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

CHARACTERISTICS/ADVANTAGES

- Great elasticity (ability to stretch and recoil to its initial dimensions). Elastic recovery value for the membrane's modified compound exceeds 90%.
- 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 PP** offers higher safety level on the job.
- Endurance to low temperatures (≤ -22 °C)
- Enhanced resistance to weathering.

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 : 250-300 gr/m² in one layer
- **ESHASTICK PP** 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



NORMS/CERTIFICATIONS

ESHASTICK PP 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.

by applying local pressure with a metal cylinder or a round wooden piece.

- At temperatures below 5° C, the adhesion properties of **ESHASTICK PP** 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, and protection of its top surface, since it is not UV-tolerant.

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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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	±0,02	10-20			m
Width	EN 1849-1	±0,02	1			m
Top Surface Finish	--	--	PE Film			--
Bottom Surface Finish	--	--	Silicone Release PE film			--
Reinforcement	--	--	High stability Polyester	Glass Fleece	Glass Mat	--
Weight	EN 1849-1	±10%	1-4			Kg/m ²
Softening Point	EN 1427	≥	105			°C
Penetration at 25 °C	EN 1426	--	75-95			dmm
Tensile strength L/T	EN 12311-1	± 20%	450/300	300/200	600/600	N/50mm
Elongation L/T	EN 12311-1	± 15%	30/40	2/2	4/4	%
Tear resistance L/T	ASTM D4073-94	± 15%	200/300	100/100	300/300	N
Static puncture resistance (concrete)	EN 12730/UEAtc MOAT27	--	L3 (15-25)	L2 (7-15)		Kg
Dynamic puncture resistance (concrete)	EN 12691/UEAtc MOAT27	--	I3 (Φ 8)	I3 (Φ 10)		mm
Flexibility to low temperatures	EN 1109	± 5	-22			°C
Heat Resistance	EN 1110	<	100			°C
Water tightness (60 KPa, 24 h)	UEAtc/EN 1928 method - 1	--	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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