



WATERPROOFING MEMBRANES

SELF-ADHESIVE BITUMINOUS MEMBRANES

ESHASTICK PP® - SELF ADHESIVE ELASTOMERIC BITUMINOUS WATERPROOFING MEMBRANES WITH PE FILM TOP COVER

EshaStick PP 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 (-20 °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. They are used in 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.
- On metal or wood surfaces.
- To both metal and concrete pipes for protection and waterproofing.

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 1.2 offers higher safety level on the job.
- Extremely high puncture resistance
- Excellent elasticity - elongation at tensile break exceeding 300%.
- Endurance to low temperatures (- 20 °C)
- Enhanced resistance to weathering.

NORMS/CERTIFICATIONS

EshaStick PP Bituminous membranes comply with **EN 13707**, **EN 13969** and are certified with **CE No. 1020-CPD-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.

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EN ISO 9001: 2000

EN ISO 14001: 2004





STORAGE

Membrane rolls should be stored in their original package, in vertical position, protected from direct sunlight, rain, snow and ice.

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 : 250-450 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 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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TECHNICAL CHARACTERISTICS

BITUMINOUS COMPOUND	Elastomeric bitumen with self-adhesive properties	
TOP SURFACE FINISH	PE film	PE film
BOTTOM SURFACE FINISH	Silicone release PE film	Silicone release PE film
REINFORCEMENT	High stability polyester	Glass fleece
WEIGHT EN 1849-1	1 - 4 kg/m ²	1 - 4 kg/m ²
Tensile strength longitudinal/ transversal EN 12311-1	> 350 / > 200 N/50 mm	> 120 / > 60 N/50 mm
Elongation longitudinal/ transversal EN 12311-1	> 30 % / > 40 %	> 2 % / > 2 %
Tear resistance longitudinal/ transversal ASTM D-4073-94	>150 N / > 290 N	> 100 N / > 100 N
Puncture resistance static EN 12730, UEAtc MOAT 27	I3 (15-25kg)	I2 (7-15kg)
Puncture resistance dynamic EN 12691, UEAtc MOAT 27	I3 (10 mm)	I2 (15 mm)
Cold flexibility (film 3mm) EN 1109	from -10 to -20 °C	from -10 to -20 °C
Heat resistance EN 1110	80 °C	80 °C
Softening point EN 1427	> 95 °C	> 95 °C
Penetration at 25 °C EN 1426	90 - 110 dmm	90 - 110 dmm
Dimensional stability EN 1107-1	-0,15 / +0,2 L/T%	-0,1 / +0,1 L/T%
Roll Dimensions (W x L) EN 1848-1	1 m x 10 m	1 m x 10 m

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.

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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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