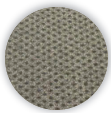


BITUMAX TORCH - ON MEMBRANE



PE



SAND



GREY

DESCRIBE

BITUMAX (PES) is a plastomeric Modified Bitumen Membrane used for various waterproofing applications. It is manufactured in a high-tech calendaring process, which involves the saturation and coating of a polyester carrier with an APP polymer modified bitumen compound. The polymer additives are used to improve the thermal, chemical and ageing properties of the bitumen compound. Meanwhile, the mechanical characteristics such as tensile strength, elongation and tear resistance are boosted by the non-woven polyester carrier, which acts as a reinforcement to the product.

SURFACE FINISH AND THICKNESS

The lower surface of the membrane is laminated with a thin thermo-fusible polyethylene 'burn-off' film. The membrane is available with a wide range of upper surface finish options including different colored slates, aluminum foil, sand and polyethylene film.

Thickness: 3mm and 4mm

KEY FEATURES

- Absolute impermeability to water
- High chemical resistance to alkaline solutions, light acidic solutions and bacteria.
- Thermal resistance under a wide range of temperature fluctuation
- Excellent U.V. resistance when surface is finished with slates
- Ease of adhesion to a wide variety of surfaces
- Applicable for above and below grade usages

APPLICATIONS

BITUMAX (PES) membranes are used for a wide variety of waterproofing requirements and in applications subject to high mechanical stresses, such as:

- Roofing or re-roofing for single or multi-layer systems
- Sloped and flat roofs
- Tunnels, wet areas, swimming pools and toilets
- Foundations and underground structures
- Slab on grade

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STORAGE

BITUMAX (PES) should be stored in an upright position in a dry, flat and ventilated storage area away from direct sunlight.

SPECIFICATIONS

TEST	UNIT	TOLERANCE	TEST METHOD	RESULTS
Cold Temperature Flexibility	° C	MLV ≤	EN 1109	0 ± 2
Thickness	mm	MDV ± 5%	EN 1849-1	3 & 4
Roll Width	m	MDV ± 1%	EN 1848-1	1
Roll Length	m	MDV ± 1%	EN 1848-1	10
Penetration @ 25 ° C	dmm	MDV ± 5	ASTM D-5	25
Softening Point (R&B)	° C	MLV ≥	ASTM D-36	150
TENSILE STRENGTH (MAX)				
Longitudinal	N/5cm	MDV ± 20%	EN 12311-1	600
Transverse	N/5cm	MDV ± 20%	EN 12311-1	400
ELONGATION @ BREAK				
Longitudinal	%	MDV ± 15	EN 12311-1	30
Transverse	%	MDV ± 15	EN 12311-1	35
Resistance to Static Loading	Kg	MLV ≥	EN 12730	10
Resistance to Impact Loading	mm	MLV ≤	EN 12691	900
Flow Resistance at Elevated Temperature	° C	MDV - 10	EN 1110	120
Dimension Stability	%	-	EN 1107-1	± 0.7
External Fire Performance	-	-	EN 13501-5	F _{Roof}
Reaction To Fire	-	-	EN 13501-1	F
Water Tightness Method A	60 Kpa	-	EN 1928:2000	PASS
Average Loss of Slates	%	MLV ≤	EN 12039	30

OTHER NOTES

- Due to continuous product development, BITUMAX reserves the right to modify technical specifications without prior notice.
- Membranes with a color slated surface finish may notice a change of color variations in form of oily marks, caused by migration of natural bitumen oils and exposure to atmospheric agents. This occurrence has no effect on the product's performance what so ever and becomes uniform gradually by time.
- This publication revokes any previous one. Issue. 1 / © 2017
- PES: Non-Woven Polyester Reinforcement.