

APP MODIFIED TORCH APPLIED BITUMINOUS MEMBRANE

DESCRIPTION

Smart Torch 40 Slate 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

The lower surface of the membrane is laminated with a thin thermo-fusible polyethylene 'burn-off film'. The upper surface is finished with colored slates (green or grey).

KEY FEATURES

- Impermeable to water.
- High chemical resistance to alkaline solutions, light acidic solutions and bacteria.
- Thermal resistance under a wide range of temperature fluctuation.
- Ease of adhesion to a wide variety of surfaces.
- Applicable for above and below grade usages.

APPLICATIONS

Smart Torch 40 Slate membrane is used for a wide variety of waterproofing requirements and in applications subject to high mechanical stresses, such as:

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

STORAGE

Smart Torch 40 Slate should be stored in an upright position in a dry, flat and ventilated storage area away from direct sunlight.

PROPERTIES	UNIT	TOLERANCE	TEST METHOD	RESULTS
Reinforcement Type	gm/m ²	-	-	140
Thickness	mm	MLV ± 5%	EN 1849-1	4
Cold Temperature Flexibility	°C	MLV ≤	EN 1109	-5
Mass Per Unit Area	Kg/m ²	MDV ± 10%	EN 1849-1	4
Roll Width	m	MDV ± 1%	EN 1849-1	1
Roll Length	m	MDV ± 1%	EN 1849-1	10
Penetration @ 25°C	dmm	MDV ± 5	ASTM D-5	25
Tensile strenght (max)				
Longitudinal	N/5cm	MDV ± 20%	EN 12311-1	705
Transverse	N/5cm	MDV ± 20%	EN 12311-1	600
Elongation @ break				
Longitudinal	%	MDV ± 15%	EN 12311-1	48
Transverse	%	MDV ± 15%	EN 12311-1	47
Dimension Stability	%	-	EN 1107-1	± 0.25
Resistance to Static Loading	Kg	MLV ≥	EN 12730	15
Resistance to Impact Loading	mm	MLV ≤	EN 12691	900
Flow Resistance at Elevated Temperature	°C	MDV - 10	EN 1110	120
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

Due to continuous product development, technical specifications may be modified without prior notice.

SUPPLIER

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