

MORTERPLAS GARDEN MIN

MORTERPLAS GARDEN MIN Membrane with polyester felt (FP) reinforcement and mastic with anti-root treatment.

ADVANTAGES

The stabilized and reinforced non-woven polyester felt (FP) reinforcement confers the best mechanical properties to the membrane:

- High tensile strength.
- Maximum puncturing resistance (static and dynamic).
- High tear resistance.
- Good dimensional stability.
- The APP plastomeric mastic, known for its robustness and excellent low-temperature flexibility, provides the membrane with high resistance to atmospheric agents and the maximum guarantee of durability.
- The membrane has excellent resistance to high temperatures, with allows it to be used in hot climates because it does not soften under high temperatures.
- Anti-root treatment that protects the waterproofing from roots, not rhizomes that produce bamboo, couch grass (*Elymus repens*)...etc.



APPLICATION

- MORTERPLAS GARDEN MIN is applied in single-layer systems on green roofs or garden roofs with varying pitches.
- It can be applied as the top layer in multi-layer systems
- It is especially indicated for low-maintenance, light ecological roofs.
- It is applied on green roofs, where maximum use of rainwater and minimum external maintenance is required.
- It is applied in garden areas where details like upstands or vertical elements are exposed.
- It can be applied as a membrane to ensure the watertightness of underground structures

Finishing membrane in single layer systems for green roofs

REGULATIONS

- In accordance with the EN 13707 standard. Certified with CE marking No. 0099/CPR/A85/0087
- Voluntary certification of the product with AENOR seal according to the same European standard.
- With DIT No. 516 Inverted roof systems "TEXLOSA® ROOFING SYSTEMS."
- With DIT No. 562/10 MORTERPLAS/MOPLAS ZERO slope
- With DIT No. 579/11 MORTERPLAS VEHICULAR TRAFFIC
- With DIT No. 580/11 UNDERGROUND STRUCTURES MORTERPLAS
- Quality System in accordance with ISO:9001

Bituminous Waterproofing APP

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INSTALLATION

- **SUPPORT:** The surface must be dry, firm, even, clean and free of loose materials.
- It can be applied completely adhered, partially adhered or floating. · To adhere the membrane to the support, the support is primed with EMUFAL I. Once dry, use flame to adhere the membrane.
- The flame is applied as uniformly as possible (the greater the heat, the greater the retraction) along the width of the membrane without reaching the overlap, which will be done later, since it is important that the temperature be the same in every area. The flame should be applied until the anti-adherent film pore opens.
- The membranes are installed in such a way that no more than three membranes overlap at the same point.
- Overlaps are flame-bonded, with a longitudinal overlap of at least 8 cm and a transversal overlap of at least 10 cm, first removing the minerals from the surface to ensure adherence.
- In the two-layer solution, the top membrane must be completely adhered to the bottom membrane, and it must be placed in the same direction so that the overlap lays approximately in the middle of the bottom membrane.
- Installation and measurements will be conducted in accordance with regulations of the UNE 104401 standard.

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PACKAGING AND STORAGE

	MORTERPLAS GARDEN MIN
Kg/m ²	5 -5/+10%
Length (m)	8
Width (m)	1
m ² /roll	8
m ² /pallet	200
Finishing *	Green slates
Storage	Upright on pallet. Store in the original packaging in a dry and cool place, protected against weathering.

*NOTE: Self protected membranes are finished with natural minerals (slates or granule), they could appear with diferent coloured tones in sheets from different batch. It must be aware for the orders on a same roof, specially for refurbishment. This feect will be soon minimized once exposed on roof.

TECHNICAL PROPERTIES

CHARACTERISTICS	Test Method	Unit	MORTERPLAS GARDEN MIN
External fire behaviour	ENV 1187	-	Broof(t1)
Fire reaction	EN 13501-1:2002 (EN ISO 11925-2)	-	E
Watertightness	EN 1928:2000 (B)	-	Pass (10 kPa)
Maximum tensile strength (L x T)	EN 12311-1	N/50 mm	700 ± 200 450 ± 150
Elongation (L x T)	EN 12311-1	%	45 ± 15 45 ± 15
Root penetration resistance	EN 13948	-	Pass / Pasa
Static load resistance	EN 12730 (A)	kg	≥ 15
Impact resistance	EN 12691:2006	mm	≥ 1000
Tear strength (nail) (L x T)	EN 12310-1	N	NE
Joint peel resistance	EN 12316-1	N/50 mm	NE
Joint shear resistance (L x T)	EN 12317-1	N/50 mm	450 x 450 ± 150
Artificial ageing by long-term exposure to high temperature	EN 1296 12 sem/weeks	EN 1109 / 1110	-5 ±5 °C / ≤ 2 mm (100 ±10 °C)
Artificial ageing by long term exposure to the combination of UV radiation, high temperature and water	EN 1297	EN 1850-1	NE
Flexibility at low temperature	EN 1109	°C	≤ -15
Hazardous substances	--	--	PND

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OTHER FEATURES

OTHER CHARACTERISTICS	Test Method	Unit	Value
Visible defects	EN 1850-1	-	Pass
Straightness	EN 1848-1	-	Pass (<20 mm/10 m)
Compound per area unit	EN 1849-1	kg/m ²	5,00 -5/+10%
Thickness	EN 1849-1	mm	-
Thickness in overlap	EN 1849-1	mm	-
Watertightness after stretching at low temperature	EN 13897	%	--
Dimensional stability	EN 1107-1	%	≤ 0,4
Form stability under cyclic temperature change	EN 1108	mm	NE
High temperature flow resistance	EN 1110	°C	≥ 120
Granule adhesion	EN 12039	%	20 (-20/+10) %
Water vapour transmission properties	EN 1931	μ	20000

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