

MORTERPLAS SBS FM 5 KG MIN

MORTERPLAS SBS FM 5 Kg MINERAL is a self-protected waterproofing membrane, made of SBS elastomeric bitumen, reinforced with polyester and fibre glass mesh (FM), and finished with a mineral protection on the upper side and a thermally bonded film on the lower side.

ADVANTAGES

- The SBS elastomeric mastic provides the membrane with excellent flexibility at low temperatures.
- The non-woven polyester felt (FP) reinforcement on the inside and the polyester felt on the upper surface confer the best mechanical properties to the membrane:
 - Maximum puncturing resistance (static and dynamic)
 - High tear resistance
 - Excellent dimensional stability.
- Application with mechanical fixing offers the following advantages:
 - Fast installation.
 - Installation is not as affected by the possibility of bad weather.
 - Since the membrane is not adhered, it allows for potential movement of the support.



APPLICATION

- Finishing membrane in single-layer systems for mechanically fixed deck roofs.
- Non-trafficable roofs without heavy protection: fully adhered single-layer application.
- Technically, the mineral membranes can be substituted by double reinforcement (fibre glass and polyester felt) in fully adhered self-protected single-layer waterproofing systems.

REGULATIONS

- In accordance with the EN 13707 standard. Certified with CE marking No. 0099/CPD/A85/0087
- Voluntary certification of the product with AENOR seal according to the same European standard.
- With DIT No. 04/0109 MORTERPLAS SBS FM SINGLE-LAYER and ETAG 006
- Quality System in accordance with ISO:9001

Bituminous Waterproofing SBS

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INSTALLATION

- **SUPPORT:** The surface must be dry, firm, even, clean and free of loose materials.
- When waterproofing metal roofs, it is recommended that you install the fretwork sheet with the greatest surface area on the upper side, in order to allow installation of the insulation and the membrane.
- The membranes are installed in such a way that no more than three membranes overlap at the same point.
- Overlaps are carried out with flame, with a minimum longitudinal overlap and a minimum transversal overlap of 12 cm, first eliminating the polyester felt from the surface with flame and with the help of a trowel to ensure mastic adherence.
- We recommend using mechanical fixings with washers with a minimum surface area of 1600 mm², with a maximum diameter of 5 cm for circular fixings and widths no greater than 4 cm for rectangular fixings. Fixings must have a resistance to static extraction equal to or greater than 1250 N. See Annex 2 of the DIT No. 06/0018, where a series of fixings that meets requirements is listed. The site's wind load, environmental conditions, and local standards must be taken into account with the calculations.
- Installation and measurements will be conducted in accordance with regulations of the UNE 104401 standard.

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PACKAGING AND STORAGE

xxxxx	MORTERPLAS SBS FM 5 kg MIN
Kg/m ²	5 -5/+10%
Length (m)	8
Width (m)	1
m ² /roll	8
m ² /pallet	200
Finishing *	White slates, natural 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 SBS FM 5 KG 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	900 ± 250 650 ± 250
Elongation (L x T)	EN 12311-1	%	45 ± 15 45 ± 15
Root penetration resistance	EN 13948	-	NE
Static load resistance	EN 12730 (A)	kg	≥ 20
Impact resistance	EN 12691:2006	mm	≥ 1400
Tear strength (nail) (L x T)	EN 12310-1	N	300 ± 100
Joint peel resistance	EN 12316-1	N/50 mm	180 ± 60
Joint shear resistance (L x T)	EN 12317-1	N/50 mm	650 x 650 ± 250
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	--
Watertightness after stretching at low temperature	EN 13897	%	NPD
Dimensional stability	EN 1107-1	%	≤ 0,3
Form stability under cyclic temperature change	EN 1108	mm	NE
High temperature flow resistance	EN 1110	°C	≥ 100
Granule adhesion	EN 12039	%	20 (-20/+10) %
Water vapour transmission properties	EN 1931	μ	20000

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