

## MORTERPLAS FPV 4 KG MIN

MORTERPLAS FPV 4KG MIN is a self-protected waterproofing membrane, made of APP plastomeric bitumen, with a high softening point, reinforced with reinforced and stabilized polyester felt (FP), and finished with a mineral protection on the upper side and a thermally bonded film on the lower side.

### ADVANTAGES

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

- High tensile strength
- Maximum puncturing resistance (static and dynamic)
- High tear resistance
- Excellent dimensional stability.



### APPLICATION

It is especially recommended in applications where maximum puncturing resistance is needed.

- MORTERPLAS FPV can be applied as the top layer in a double-layer system on non-trafficable roofs without protection, with varying pitches.
- For single-layer systems, the MORTERPLAS FPV 4kg MIN membrane with a mass  $\geq 4 \text{ kg/m}^2$  will be used in systems in accordance with the DITs and local construction regulations.

Finishing membrane in multi-layer systems for non-trafficable 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.
- 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 FPV 4 Kg MIN	MORTERPLAS FPV 5 Kg MIN
Kg/m <sup>2</sup>	4 -5/+10%	5 -5/+10%
Length (m)	10	8
Width (m)	1	1
m <sup>2</sup> /roll	10	8
m <sup>2</sup> /pallet	250	200
Finishing *	Natural slates, Red slates, Green slates and White slates.	Natural slates, Red slates, Green slates and White slates.
Storage	Upright on pallet. Store in the original packaging in a dry and cool place, protected against weathering.	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 FPV 4 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	700 ± 200 450 ± 150
Elongation (L x T)	EN 12311-1	%	45 ± 15 45 ± 15
Root penetration resistance	EN 13948	-	NE
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	180 x 220 ± 50
Joint peel resistance	EN 12316-1	N/50 mm	NE
Joint shear resistance (L x T)	EN 12317-1	N/50 mm	NE
Artificial ageing by long-term exposure to high temperature	EN 1296 12 sem/weeks	EN 1109 / 1110	-5 ± 5°C / ≤ 2 mm (120 ± 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 <sup>2</sup>	4,00 -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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