

Technical Commercial data Sheet

Monoplus

Waterproofing bitumen polymer membrane



Dimensional features

Length	10 m - 1% (UNI EN 1848-1)	Toll. ≥
Width	1 m - 1% (UNI EN 1848-1)	Toll. ≥
Thickness (3mm; 4mm)	3 / 4 mm (UNI EN 1849-1)	Toll. 0,4 mm
Weight per m ² (MINERAL 4,5 kg))	4.5 kg (UNI EN 1849-1)	Toll. 10%

Description

The MONOPLUS membranes are realized with an elastoplastic APAO based on metallocenic upgradd ed resins compound with a -20°C cold flexibility. The reinforcement consists in spunbonded non woven polyester reinforced with glass fibre threads.

The MONOPLUS 4 MM P is also available in the "TEX" version with "DECOTEX" treatment, consisting in the application on the upper face of a special black polypropylenic tissue.

Application

- Use Personal Protective Equipment as requested by law;
- Clean properly the surface on which membranes has to be applied;
- MONOPLUS is meant to be applied by flame with a gas propane blow torch by heating the lower face, covered with a special thermofusibile film;
- Apply between +5° C and + 35° C.

Recommended Use

The MONOPLUS membranes can be employed on structures of any type, like base layers, basement structures, earth retention walls and foundations. MONOPLUS 4 MM can be used as top layer or single layer, MONOPLUS MINERAL can be used as top layer.

Storage

Keep the rolls in warehouse, not exposed to the sun rays and at a higher temperature than +5°C. Keep the rolls in the upright position. If possible, avoid stacking pallets, especially with slated membranes. It is advisable to use the product within 2/3 months from delivery.

TYPE	REINFORCEMENT	UPPER FACING	THICKNESS	m ² PER PALLET
MONOPLUS 4 MM P	Polyester	Sand	4 mm	230
MONOPLUS TEX 4 MM P	Polyester	Polypropylene TNT	4 mm	230
MONOPLUS MINERAL 4,5 KG P	Polyester	Slate	4 kg	230
MONOPLUS MINERAL 4 MM P	Polyester	Slate	4 mm	160

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Test	Standard Reference	MONOPLUS P	MONOPLUS MINERAL P	TOLERANCE
Visible Faults	UNI EN 1850-1	absent	absent	-
Straightness	UNI EN 1848-1	10 mm	10 mm	≤
Watertightness	UNI EN 1928	60 kPa	60 kPa	≥
Cold flexibility	UNI EN 1109	- 20 °C	- 20 °C	≤
Cold flexibility after ageing	UNI EN 1296 UNI EN 1109	- 15 °C	- 15 °C	+ 15 °C
L dimensional stability	UNI EN 1107-1	- 0,3 %	- 0,3 %	≥
Flow resistance	EN 1110	140 °C	140 °C	≥
Flow resistance after ageing	UNI EN 1296 UNI EN 1109	130 °C	130 °C	- 10 °C
Tensile strength at breaking L/T	UNI EN 12311-1	850 N/5 cm 650 N/5 cm	850 N/5 cm 650 N/5 cm	- 20 %
Overlaps tear resistance L/T	UNI EN 12317-1	750 N/5 cm 550 N/5 cm	750 N/5 cm 550 N/5 cm	- 20 %
Elongation at breaking L/T	UNI EN 12311-1	50% 50%	50% 50%	- 15 a.v.
Tear resistance (B method) L/T	UNI EN 12310-1	170 N 180 N	170 N 180 N	- 30 %
Static load resistance	UNI EN 12730	25 Kg	25 Kg	≥
Dynamic punching resistance	UNI EN 12691	1000 mm	1000 mm	≥
Vapour permeability	UNI EN 1931	μ 20000	μ 20000	-
UV ageing	UNI EN 1297	Passes the test	-	-
Fire reaction	EN 13501-1	NPD	NPD	-
External fire reaction	EN 13501-5	F roof	F roof	-
Granules adhesion	UNI EN 12039	-	30%	≤
Watertightness after exposure to chemical agents artificial ageing	UNI EN 1928 UNI EN 1847/ UNI EN 1296	NPD	-	-
Uses	EN 13707 System 2+	Base layer Middle layer Under heavy protection Single layer	Top layer	-
	EN 13969 System 2+	Foundations Earth retention	-	-

The Saint-Gobain PPC Italia S.p.A. quality system is certified according to EN ISO 9001

Follow proper application and storage modalities.

The CE marking of this bituminous membrane is in accordance with the European Construction Products Regulation 305/2011, is in agreement to the reference technical standards and is supported by certification no. 1370-CPR-0050.

Saint Gobain PPC Italia has the right to change the technical data of this data sheet any time with no need of notice.



Isover Saint-Gobain
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del GBC Italia

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