

# Technical Commercial data Sheet

## Master Plus

Waterproofing bitumen polymer membrane



### Dimensional features

Length	10 m - 1% (UNI EN 1848-1)	Toll. $\geq$
Width	1 m - 1% (UNI EN 1848-1)	Toll. $\geq$
Thickness	3/4 mm (UNI EN 1849-1)	Tol. 0,4 mm
Weight/m <sup>2</sup> (MINERAL)	4,5 kg (UNI EN 1849-1)	Tol. 10%

### Description

The membranes of the MASTER PLUS range are realized with an elastoplastic compound with a  $-10^{\circ}\text{C}$  cold flexibility and are reinforced in glass tissue or polyester strengthened with glass cloth.

MASTER PLUS 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 polypropylene tissue.

### Application

- Use Personal Protective Equipment as requested by law;
- Clean properly the surface on which membranes has to be applied;
- MASTER PLUS is meant to be applied by flame with a gas propane blow torch by heating the lower face, covered with a special termofusibile film;
- Apply between  $+5^{\circ}\text{C}$  and  $+35^{\circ}\text{C}$ .

### Recommended Use

MASTER PLUS membranes can be employed on structures of any type, like base layers, basement structures and foundations. MASTER PLUS 4 MM P (if properly protected with specific paint) and MASTER PLUS MINERAL versions can be used as top layer.

### Storage

Keep the rolls in warehouse, not exposed to the sun rays and at a higher temperature than  $+5^{\circ}\text{C}$ . 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 WEIGHT/m <sup>2</sup>	m <sup>2</sup> PER PALLET
MASTER PLUS 3 MM V	Glass tissue	Sand	3 mm	250
MASTER PLUS 4 MM V	Glass tissue	Sand	4 mm	230
MASTER PLUS 3 MM P	Polyester	Sand	3 mm	250
MASTER PLUS 4 MM P	Polyester	Sand	4 mm	230
MASTER PLUS TEX 4 MM P	Polyester	Polypropylene TNT	4 mm	230
MASTER PLUS MINERAL 4,5 KG P	Polyester	Slate	4,5 kg	230



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Test	Standard Reference	MASTER PLUS V	MASTER PLUS P	MASTER PLUS MINERAL P	TOLERANCE
Visible Faults	UNI EN 1850-1	absent	absent	absent	-
Straightness	UNI EN 1848-1	10 mm	10 mm	10 mm	≤
Watertightness	UNI EN 1928	60 kPa	60 kPa	60 kPa	≥
Cold flexibility	UNI EN 1109	- 10°C	- 10 °C	- 10 °C	≤
L dimensional stability	UNI EN 1107-1	NPD	- 0,3 %	- 0,3 %	≥
Flow resistance	EN 1110	120 °C	120 °C	120 °C	≥
Flow resistance after ageing	UNI EN 1296 UNI EN 1109	110 °C	110 °C	110 °C	- 10 °C
Tensile strength at breaking L/T	UNI EN 12311-1	300 N/5 cm 200 N/5 cm	400 N/5 cm 250 N/5 cm	400 N/5 cm 250 N/5 cm	- 20 %
Elongation at breaking L/T	UNI EN 12311-1	2% / 2%	35% 35%	35% 35%	-15 a.v. (P) - 2 a.v. (V)
Tear resistance (B method) L/T	UNI EN 12310-1	70 N 70 N	130 N 130 N	130 N 130 N	- 30 %
Static load resistance	UNI EN 12730	NPD	10 Kg	10 Kg	≥
Dynamic punching resistance	UNI EN 12691	NPD	700 mm	700 mm	≥
Vapour permeability	UNI EN 1931	μ 20000	μ 20000	μ 20000	-
UV ageing	UNI EN 1297	-	Passes the test (4 mm)	-	-
Fire reaction	EN 13501-1	NPD	NPD	NPD	-
External fire performance	EN 13501-5	F roof	F roof	F roof	-
Granules adhesion	EN 12039	-	-	30%	
Watertightness after exposure to chemical agents artificial ageing	UNI EN 1928 UNI EN 1847/ UNI EN 1296	NPD	NPD	-	-
Resistance to water penetration	UNI EN 1928	-	-	CLASS W1	-
Res. to water penetration Tensile properties after artificial ageing	App. C EN 13859-1	-	-	NPD	-
Uses	EN 13707 System 2+	Base layer Middle Layer Top layer	Base layer Middle layer Top layer	Top layer	-
	EN 13969 System 2+	Foundations Earth retention	Foundations Earth retention	-	-
	EN 13859-1 System 4			Under tiles	

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

Our products foresee proper application and storage modalities.

The CE marking of this product is in accordance with the European directive 89/106/CE approved by DPR 246 dated 21/4/1993 and is in agreement to the reference technical standards EN 13970 and EN 13859-1 and is supported by the test report no. Ta 51120/06 issued on 23.11.06 by the TUM Centre for Building Materials Baumbachstrabe, notified Test Laboratory no. 1211. Saint Gobain PPC Italia has the right to change the technical data of this data sheet any time with no need of notice.



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Saint-Gobain PPC Italia S.p.A. – Attività Isover

Headquarters: Via Ettore Romagnoli, 6 – 20146 Milano

Bituver Plant: Via G.Pastore, 15 - 66013 Chieti Scalo (CH) - Tel. 0871/599022 - Fax 0871/ 552483

www.bituver.it

