

# Technical Commercial data Sheet

## Polimat Antiradon

### Waterproofing and radon barrier bitumen polymer membrane



#### Dimensional features

Length	10 m - 1% (UNI EN 1848-1)	Tol. ≥
Width	1 m - 1% (UNI EN 1848-1)	Tol. ≥
Thickness	4 mm (UNI EN 1849-1)	Tol. 0,4 mm



#### Description

Bituver POLIMAT ANTIRADON membranes are realized with an elastoplastic (BPP) compound that reaches  $-10^{\circ}\text{C}$  cold flexibility and with a specific reinforcement consisting in a goffered aluminum sheet coupled with glass tissue. The product is finished with the "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;
- The treatment of the application surface with Bituver ECOPRIVER, water based bituminous primer, is suggested;
- POLIMAT ANTIRADON 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  $+35^{\circ}\text{C}$ .
- Take into account that POLIMAT ANTIRADON acts like a vapour barrier.

#### Recommended Use

POLIMAT ANTIRADON is an efficient solution against the rise of radon in underground locations of buildings.

- It is not only a radon retarder but is certified as radon barrier;
- It carries out two key functions; waterproofing of foundations - earth retention walls and anti-radon barrier;
- It guarantees a perfect sealing of junctions thanks to the torch-on application;
- The aluminum reinforcement gives a high root resistance to the product.

#### 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 FINISHING	THICKNESS	m <sup>2</sup> PER PALLET
POLIMAT ANTIRADON 4 MM P	Aluminum + glass tissue	Sand or film	4 mm	230



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Test	Standard reference	POLIMAT ANTIRADON	TOLERANCE
Visible Faults	UNI EN 1850-1	absent	-
Straightness	UNI EN 1848-1	10 mm	≤
Watertightness	UNI EN 1928	60 kPa	≥
Cold flexibility	UNI EN 1109	- 10 °C	≤
L dimensional stability	UNI EN 1107-1	- 0,3 %	≥
Flow resistance	EN 1110	120 °C	≥
Flow resistance after ageing	UNI EN 1296 UNI EN 1110	110 °C	- 10 °C
Tensile strength at breaking L/T	UNI EN 12311-1	500/500 N/50 mm	- 20 %
Overlaps tear resistance L/T	UNI EN 12317-1	400/400 N/50 mm	- 20 %
Elongation at breaking L/T	UNI EN 12311-1	3/3 %	- 15 a. v.
Tear resistance (B method) L/T	UNI EN 12310-1	60/60 N	- 30 %
Static load resistance	UNI EN 12730	15 Kg	≥
Dynamic punching resistance	UNI EN 12691	300 mm	≥
Vapour permeability	UNI EN 1931	μ 670 000	-
UV ageing	UNI EN 1297	Passes the test	-
Fire reaction	EN 13501-1	NPD	-
External fire resistance	EN 13501-5	F Roof	-
Radon barrier	CSI internal method *	High barrier < 1 cm <sup>3</sup> /m <sup>2</sup> x 24h per atm.	-
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	-
	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.

\* CSI certificate n° 0447/FPM/MATs/13 Rev. 1 of 27/06/2013



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