

SICURBAR**Nature of product**

Prefabricated membrane, with specific characteristics of resistance and impermeability to RADON gas. SICURBAR is obtained by coextrusion of a special bitumen-polymer- and plastomeric-based compound, strongly resistant to the passage of Radon and of a glass mat reinforcement coupled with a pure aluminium sheet that ensures the absolute impenetrability of Radon. The impermeability of SICURBAR to Radon has been proven by specific tests performed at the CSI of Bollate - MI (CSI Test Report no. 047/ICF/EDI/03: $< 0.1 \text{ cm}^3/\text{m}^2 \times 24\text{h} \times \text{atm}$).

SICURBAR also complies with the requirements for CE marking of foundation waterproofing membranes. It does not contain asbestos, tar or other dangerous substances.

Intended use

The SICURBAR membrane is a product specifically designed as an anti-Radon barrier, an effective complement for the waterproofing of underground structures exposed to water infiltration, as well as being a measure against Radon gas permeations.

Application procedure

The substrate must be carefully cleaned of the non-adherent parts, and regularised. The next step is priming of all the surfaces to be covered with a suitable primer applied with a long-handled brush, roller or spray, with a consumption of $0.2 \div 0.3 \text{ litres/m}^2$ and in any case variable according to the porosity of the substrate itself. After drying, the membrane is applied with the aid of a gentle flame, taking care in particular that the joints are made by overlapping the adjacent sheets by at least 10 cm and that they are carefully sealed by means of thermofusion.

For correct and detailed documentation, as well as to identify the most effective intervention solutions in all circumstances, we recommend consulting the Technical Services of IMPER ITALIA srl which are in any case available for the consultation of particular problems as well as to provide all the assistance necessary for the best use of these materials.

TECHNICAL SPECIFICATIONS ⁽¹⁾

Specifications	EN Standards	Unit of Measure	Tolerances ⁽¹⁾	SICURBAR
Roll dimensions	1848-1	m	≥	1 × 10
Thickness	1849-1	mm	±5%	4
Mass per unit area	1849-1	kg/m ²	±10%	-
Watertightness	1928-B	kPa	≥	60
Cold flexibility	1109	°C	≤	-10
Flow resistance at elevated temperature	1110	°C	≥	+120
L/T tensile strength	12311-1	N/50mm	±20%	420 / 315
L/T tensile elongation	12311-1	%	±15 ⁽²⁾	2 / 2
L/T dimensional stability	1107-1	%	≤	-
Static puncture	12730	kg	≥	10
Dynamic puncture	12691-B	mm	≥	-
L/T tear resistance	12310-1	N	±30%	-
Joint peel resistance	12316-1	N/5cm	±20 N	-
Joint cut resistance ⁽⁵⁾	12317-1	N/5cm	±20%	-
Durability after aging::				
• Cold flexibility	1296-1109	°C	+15°C	-
• Flow resistance at elevated temperature	1296-1110	°C	-10°C	+120
• UV Ageing	1297	-	-	-
• Watertightness	1296-1928	kPa	≥	60
• Chemical resistance	-	-	-	NPD ⁽³⁾
• L/T tensile strength	12311-1	N/5cm	±20%	-
• L/T tensile elongation	12311-1	%	±15 ⁽²⁾	-
Steam permeability	1931	μ	≥	
Root resistance	LG Aispec		-	-
External fire behaviour	13501-5	EC ⁽⁵⁾	-	Froof
Fire reaction	13501-1	EC ⁽⁵⁾	-	F

Notes: ⁽¹⁾ In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

⁽²⁾ ±2 for Glass Mat reinforcements.

⁽³⁾ Characteristic not determined because it is not relevant for use.

⁽⁴⁾ Declared value or failure away from joints.

⁽⁵⁾ Euroclass.

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Considerando le diverse situazioni d'impiego dei prodotti e l'intervento di fattori da noi non dipendenti (supporti, condizioni di esercizio, in osservanza delle prescrizioni, ecc.), non è possibile alla IMPER ITALIA srl assumere responsabilità in merito ai risultati ottenuti. Il progresso unito alla costante ricerca dei massimi livelli prestazionali possono apportare - nel tempo - modificazioni alle informazioni contenute in questo stampato, senza che la IMPER ITALIA srl debba darne preavviso a tutti gli interessati.



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