

Technical Commercial data Sheet

BITUVER X-10

Waterproofing bitumen polymer membrane

BITUVER X-10 membranes are realized with elastoplastomeric (BPP) compound that reaches -10°C cold flexibility made by a low filler content.

The products are reinforced by polyester stabilized with glass filaments or by glass mat.

BITUVER X-10 is also available in the "TEX" version with "DECOTEX" treatment, consisting in the application on the upper face of a special black polypropylene tissue.

BITUVER X-10 MINERAL is available with natural or colored slates.

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;
- **BITUVER X-10** 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 $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$.



Suggested uses

BITUVER X-10 membranes can be used on all type of structures as base layers, intermediate layers, earth retention and foundation. **Ideal also under heavy protection.** BITUVER X-10 and BITUVER X-10 MINERAL can be used also as top layers or under tiles.

Storage

It is advisable to 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/m2	m ² PER PALLET
BITUVER X-10 4 MM P	Polyester	Sand	4 mm	230
BITUVER X-10 TEX 4 MM P	Polyester	Polypropylene TNT	4 mm	230
BITUVER X-10 MINERAL 4 KG P	Polyester	Slate	4 kg	250
BITUVER X-10 MINERAL 4,5 KG P	Polyester	Slate	4,5 kg	230

Dimensional features	Length	10 m - 1% (UNI EN 1848-1)	Toll. \geq
	Width	1 m - 1% (UNI EN 1848-1)	Toll. \geq
	Thickness	(UNI EN 1849-1)	Toll. 0,2 mm
	Weight/m2	(UNI EN 1849-1)	Toll. 10%



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CODICE: STCBE 416
REVISIONE: 01a
DATA: ottobre 2017
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Saint-Gobain PPC Italia S.p.A. – Attività Isover

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Servizio Clienti Bituver: Via G.Pastore, 15 - 66013 Chieti Scalo (CH) - Tel. 0871/588021 - Fax 0871/ 552483

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Test	Standard	BITUVER X-10	BITUVER X-10 Mineral	Tolerance
Visible Faults	UNI EN 1850-1	assenti	assenti	-
Straightness	UNI EN 1848-1	10 mm	10 mm	≤
Water tightness	UNI EN 1928	60 kPa	60 kPa	≥
Cold flexibility	UNI EN 1109	- 10 °C	- 10 °C	≤
L dimensional stability	UNI EN 1107-1	- 0,3 %	- 0,3 %	≥
Flow resistance	EN 1110	120 °C	120 °C	≥
Flow resistance after ageing	UNI EN 1296 UNI EN 1110	110 °C	110 °C	- 10 °C
Tensile strength at breaking L/T	UNI EN 12311-1	500/400 N/50 mm	500/400 N/50 mm	- 20 %
Shear of the joints (L/T)	UNI EN 12317-1	400/300 N/50 mm	-	- 20 %
Elongation at breaking L/T	UNI EN 12311-1	35/40 %	35/40 %	- 15 v.a
Tear resistance (B method) L/T	UNI EN 12310-1	140/140 N	140/140 N	- 30 %
Static load resistance	UNI EN 12730	10 Kg	10 Kg	≥
Dynamic punching resistance	UNI EN 12691	800 mm	800 mm	≥
Vapour permeability	UNI EN 1931	μ 20000	μ 20000	-
UV ageing	UNI EN 1297	Pass the test (4 mm)	-	-
Fire reaction	EN 13501-1	NPD	NPD	-
External fire reaction	EN 13501-5	F roof	F roof	-
Granules adhesion	UNI EN 12039	-	30%	≤
Water tightness after exposure to chemical agents artificial ageing	UNI EN 1928 UNI EN 1847/ UNI EN 1296	NPD	-	-
Resistance to water penetration	UNI EN 1928	-	CLASSE W1	-
Res. to water penetration Tensile properties after artificial ageing	App. C EN 13859-1	-	NPD	-
Uses	EN 13707 Sistema 2+	Base layer Middle layer Top layer (*) Under Heavy layer	Top layer	-
	EN 13969 Sistema 2+	Foundation Earth retention	-	-
	EN 13859-1 Sistema 4	-	Under tiles	-

(*) 4mm with protective paint.

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



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