

Technical Commercial data Sheet

Flexilis

Waterproofing bitumen polymer membrane



Dimensional features

Length	Declared - 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 per m ²	(UNI EN 1849-1)	Toll. 10%

Description

FLEXILIS membranes are realized with a special compound based on bitumen modified with new generation elastomeric polymers (BPE), with -15°C cold flexibility. The reinforcement is in polyester reinforced with glass filaments or in glass cloth.

FLEXILIS is also available in the "TEX" version with "DECOTEX" treatment, consisting in the application on the upper face of a special black polypropylene tissue or in "BIPOL" version with PE film on both surfaces.

Application

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

Recommended Use

The FLEXILIS membranes are to be employed on several structure types. It is proper for base layers, basement structures, earth-retention walls and foundations. The MINERAL versions are meant to be used as finishing layer and/or as single layer.

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 FINISHING	THICKNESS WEIGHT/m ²	LENGTH	m ² PER PALLET
FLEXILIS 2 MM V	Glass tissue	sand	2 mm	16 m	448
FLEXILIS 4 MM P	Polyester	sand	4 mm	10 m	230
FLEXILIS MINERAL 4,5 KG P	Polyester	Slate	4,5 kg	8 m	224
FLEXILIS MINERAL 5,5 KG P	Polyester	Slate	5,5 kg	8 m	184



CODE: STCBE 126
REVISION: 07
DATE : November 2017
Pag. 1 of 2



Technical Commercial data Sheet

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Test	Standard Reference	FLEXILIS V	FLEXILIS P	FLEXILIS 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	- 15 °C	- 15 °C	- 15 °C	≤
Cold flexibility after ageing	UNI EN 1296 UNI EN 1109	- 10 °C	- 10 °C	- 10 °C	+ 15 °C
L dimensional stability	UNI EN 1107-1	NPD	- 0,3 %	- 0,3 %	≥
Flow resistance	EN 1110	100 °C	100 °C	100 °C	≥
Tensile strength at breaking L/T	UNI EN 12311-1	300/200 N/50 mm	400/300 N/50 mm	400/300 N/50 mm	- 20 %
Elongation at breaking L/T	UNI EN 12311-1	2/2 %	35/35 %	35/35 %	- 15 v.a.
Tear resistance (B method) L/T	UNI EN 12310-1	70/70 N	130/130 N	130/130 N	- 30 %
Static load resistance	UNI EN 12730	10 Kg	10 Kg	10 Kg	≥
Dynamic punching resistance	UNI EN 12691	700 mm	700 mm	700 mm	≥
Vapour permeability	UNI EN 1931	μ 20'000	μ 20'000	μ 20'000	-
UV ageing	UNI EN 1297	-	Passes the test	-	-
Fire reaction	EN 13501-1	NPD	NPD	NPD	-
External fire reaction	EN 13501-5	F roof	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	NPD	-	-
Uses	EN 13707	Base layer Middle layer	Base layer Middle layer	Top layer	-
	EN 13969	Foundations Earth retention	Foundations Earth retention	-	-

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

The products freese proper application and storage modalities.

The CE marking of this bituminous membrane is in accordance with the European directive 89/106/CE approved by DPR 246 dated 21/4/1993, is in agreement to the reference technical standards EN 13707—EN 13969 and is supported by certification no. 1370-CDP-0050 issued by BVQI (notification no. 1370).

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



CODE: STCBE 126
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Pag. 2 of 2

