

BITUVER MONOPLUS



The **MonoPlus** waterproofing membranes are made with metallocene resin based elastoplastomeric compound APAO. Cold flexibility: -20°C

The reinforcement is made up of an extremely high-weight polyester unwoven fabric **with continuous strand** reinforced in fibreglass. The 4 mm versions (both mineral and smooth) are certified for **single-layer** use.

The membranes are also available in the **California** version with white reflective slate* *SRI medium wind 55 - Solar Reflectance 0.48*

For this solution, the **new BituverTech technology** is used in order to obtain a **superior quality compound**.



Application

- Use the PPE required by the law
- Adequately clean the support
- We always recommend preparing the support with bituminous primer Bituver ECOPRIVER
- MONOPLUS is suitable for torch application by heating the lower coated surface of a special heat melt film with a propane gas torch.
- Always apply between +5°C and + 35°C

Recommended uses

The MONOPLUS membranes can be used on any type of covering. They are suitable for substrates, finishing layers, single layers, underground structures, earth retaining walls and foundations.

Storage

Store the rolls indoors, protected from sunlight and at a temperature no lower than +5°C. Keep the rolls in a vertical position. If possible, avoid stacking the pallets. We recommend using the product within 2-3 months from delivery.

Type	Reinforcement	Surface finish:	Thickness.- weight/m ²	m ² /Pallet
MONOPLUS 4 MM P	Polyester	Sand	4 mm	230
MONOPLUS 5 MM P	Polyester	Sand	5 mm	160
MONOPLUS TEX 4 MM P	Polyester	TNT Polypropylene	4 mm	230
MONOPLUS MINERAL 4.5 KG P	Polyester	Slate chips	4.5 kg	230
MONOPLUS MINERAL 4 MM P	Polyester	Slate chips	4 mm	160

Dimensional Specifications

Length	10 m - 1% (UNI EN 1848-1)	Tol. \geq
Width	1 m - 1% (UNI EN 1848-1)	Tol. \geq
Thickness	UNI EN 1849-1	Tol. 0.2 mm
Weight per m ²	UNI EN 1849-1	Tol. 10%

Technical data

Characteristic	Regulation	Monoplus P	Monoplus Mineral	Tolerances
Visible defects	UNI EN 1850-1	absent	absent	-
Straightness	UNI EN 1848-1	10 mm	10 mm	\leq
Waterproof rating	UNI EN 1928	100 kPa	100 kPa	\geq
Cold Flexibility	UNI EN 1109	- 20°C	- 20°C	\leq
Cold flex. after ageing	UNI EN 1296 UNI EN 1109	- 20°C	- 20°C	+ 15°C
Dimensional stability L	UNI EN 1107-1	- 0.3 %	- 0.3 %	\geq
Stability of shape when hot	EN 1110	140 °C	140 °C	\geq
Stability of shape when hot after ageing	UNI EN 1296 UNI EN 1110	130 °C	130 °C	- 10 °C
Tensile breaking strength L/T	UNI EN 12311-1	850/650 N/50 mm	850/650 N/50 mm	- 20 %
Joints tensile breaking strength L/T	UNI EN 12317-1	750/550 N/50 mm	750/550 N/50 mm	- 20 %
Elongation at break L/T	UNI EN 12311-1	50/50 %	50/50 %	- 15 v.a.
Tear strength (method B) L/T	UNI EN 12310-1	170/180 N	170/180 N	- 30 %
Static load strength	UNI EN 12730	20 Kg	20 Kg	\geq
Dynamic impact strength	UNI EN 12691	1250 mm	1250 mm	\geq
Vapour permeability	UNI EN 1931	μ 20000	μ 20000	-
UV Ageing	UNI EN 1297	Passes the test	-	-
Reaction to fire	EN 13501-1	E	E	-
External fire resistance	EN 13501-5	F roof	F roof	-
Adhesion of the granules	UNI EN 12039	-	30%	\leq
Waterproof rating after exposure to chemical agents/ artificial ageing	UNI EN 1928 UNI EN 1847/ UNI EN 1296	NPD	-	-

Characteristic	Regulation	Monoplus P	Monoplus Mineral	Tolerances
Intended use	EN 13707 System 2+	Substrate or intermediate layer Finishing layer* Under heavy Protection Single layer*	Finishing layer Single layer**	-
	EN 13969 System 2+	Foundations Retaining walls	-	-

(*) only with protective paint
(**) only 4 mm version

The Saint-Gobain PPC Italia S.p.A. quality system is EN ISO 9001 certified.
The products presume suitable application and storage methods.

The CE Marking of this bituminous membrane complies with European regulation 305/2011, complies with the reference technical regulations and is supported by certificate No. 1370-CPR-0050 and by test report No. 51-07-0049\004 issued on 16 May 2007 by TUM Centre For Building Materials Baumbachstraße, Notified Testing Laboratory No. 1211
Saint-Gobain PPC Italia reserves the right to modify the technical data on this data sheet at any time without any advance notice.



Saint-Gobain PPC Italia S.p.A.

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