

TOPGUM BIARMATO MINERAL TOPGUM POLYESTER

PLASTOMERIC DISTILLED POLYMER-BITUMEN WATERPROOFING MEMBRANE, MADE OF DISTILLED BITUMEN AND PLASTOMERS

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONMENTAL						METHOD OF USE					
														
PLASTOMERIC	WATERPROOF	REACTION TO FIRE	ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	TORCH APPLICATION	HOT AIR APPLICATION	NAILING	COLD ADHESIVE BONDING	APPLICATION WITH MOLTEN BLOWN BITUMEN

* For waterproofing membranes with TEXFLAMINA underface finish only

Description

TOPGUM BIARMATO is an elastoplastomeric polymer-bitumen waterproofing membrane with a double reinforcement consisting of rot proof, isotropic, thermally stabilized, "non-woven" Polyester fabric, strengthened fibreglass mat. The fibreglass mat gives the membrane optimal dimensional stability even in hot conditions because it is resistant to the shrinkage phenomenon of the "non-woven" polyester fabric caused by "application memory". The fibreglass mat gives the membrane optimal dimensional stability even in cold conditions because it reduces the thermal linear expansion coefficient of the polymer-bitumen compound. The compound is made up of distilled bitumen, selected for industrial use, with a high content of elastomeric and plastomeric polymer additives to obtain a phase inversion compound whose continuous phase is formed by polymers in which the bitumen is dispersed, where the characteristics are determined by the polymeric matrix and not by the bitumen even though this is the most consistent ingredient.

The performance of the bitumen is therefore incremented along with the durability and the resistance to high and low temperatures while the already optimum adhesive and impermeable qualities of the bitumen remain unchanged.

The membrane is produced in various thicknesses and has the top face coated with a uniformly distributed, fine serigraphed talc, a patented treatment which makes it possible to quickly unroll the rolls and install the membranes with the safe and fast welding of the joints.

MINERAL TOPGUM POLYESTER is reinforced with a rot-proof "non woven" polyester fabric composite, stabilized with fibreglass mat which

is very strong and elastic with optimal dimensional stability in hot conditions which reduces the problems of the straightness and the retraction of head lap joints as it is 2 to 3 times more stable than normal reinforcements in "non woven" polyester fabric.

The underside of the membrane is coated with Flamina, a plastic film that melts when torched and which is embossed both to obtain the pre-tension and therefore the optimal retraction of the film and also to offer the torch a greater surface area for easier and more reliable installation.

When the membrane is dry laid or spot bonded, the embossing diffuses the vapour.

The **MINERAL** versions have the upper face self-protected with hot bonded and pressed slate granules, with the exception of an overlapping side strip, protected by a strip of Flamina film which is torched to weld the joints.

The underside of the membranes is coated with Flamina, a plastic film that melts when torched and which is embossed both to obtain the pre-tension and therefore the optimal retraction of the film and also to offer the torch a greater surface area for faster and more reliable installation. When the membrane is dry laid or spot bonded, the embossing diffuses the vapour.

Application fields

The long lasting strength and elasticity at high and low temperatures make **TOPGUM BIARMATO** ideal for use as a single or double layer waterproofing membrane for new building work or for refurbishment. The high dimensional stability, both in hot and cold conditions, make the membrane particularly suitable for the stabilization of visible surfaces on thermal insulation.

CE

INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDELINES

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

- Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection
 - TOPGUM BIARMATO
- Upper layer in multi-layer systems without permanent heavy surface protection
 - TOPGUM BIARMATO
 - MINERAL TOPGUM POLYESTER
- Under heavy protection in multi-layer systems
 - TOPGUM BIARMATO

EN 13859-1 - UNDERLAY FOR DISCONTINUOUS ROOFING

- MINERAL TOPGUM POLYESTER

TOPGUM BIARMATO can be applied:

- On all sloping surfaces, on flat, vertical and curved surfaces.
- On different types of substrates: site-cast or prefabricated concrete substrates, on metal or timber roofing, on the most widely used thermal insulation used in the building trade.
- For the most varied uses: terraces, flat and sloping roofs, walls in contact with the ground.

TECHNICAL CHARACTERISTICS

	Standard	T	TOPGUM BIARMATO		MINERAL TOPGUM POLYESTER		
			Fibreglass and "Non-woven" Spunbond polyester		"Non-woven" composite polyester stabilized with fibreglass		
Reinforcement							
Mass per unit area	EN 1849-1	±10%	4.0 mm	5.0 mm	-	-	-
Mass per unit area MINERAL	EN 1849-1	±15%	-	-	3.5 kg/m ²	4.0 kg/m ²	4.5 kg/m ²
Roll size	EN 1848-1	-1%	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m
Watertightness • after ageing	EN 1928 - B EN 1926-1928	≥ ≥	60 kPa -		60 kPa 60 kPa		
Shear resistance L/T	EN 12317-1	-20%	-		-		
Maximum tensile force L/T • after ageing	EN 12311-1	-20%	450/400 N/50 mm -		400/300 N/50 mm NPD		
Elongation L/T • after ageing	EN 12311-1	-15% V.A.	60/60% -		35/40% NPD		
Resistance to impact	EN 12691 - A		-		-		
Resistance to static loading	EN 12730 - A		-		-		
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	170/180 N		140/140 N		
Flexibility to low temperature	EN 1109	≤	0°C		0°C		
Flow resist. at high temp. • after ageing	EN 1110	≥	110°C 100°C		- -		
UV ageing	EN 1297		Test passed		-		
Reaction to fire Euroclass	EN 13501-1		E		E		
External fire performance	EN 13501-5		F roof		F roof		

Thermal specifications

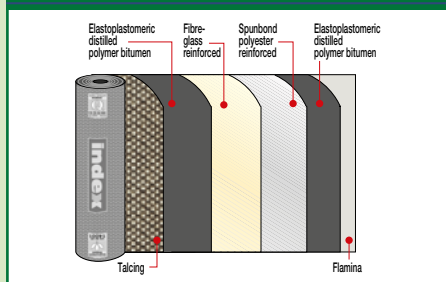
Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			3.90 KJ/K	5.20 KJ/K	4.20 KJ/K	4.80 KJ/K	5.40 KJ/K

Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of $\mu = 20\,000$ may be considered, unless declared otherwise.

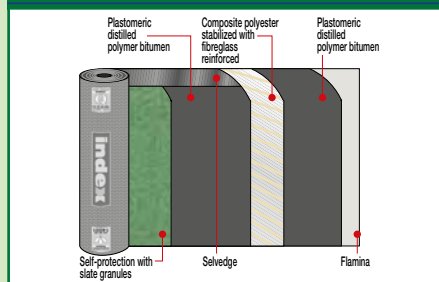
the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

COMPOSITION OF THE MEMBRANE

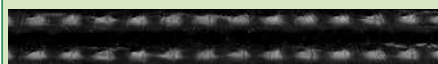
TOPGUM BIARMATO



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PRODUCT FINISHING



EMBOSSING FLAMINA. The embossing on the lower surfaces of the membranes finished with Flamina film makes it possible to lay the product precisely and quickly, forming a smooth surface when melted with the torch. It indicates the correct melting temperature and lets the film retract faster. The embossing also enables optimal vapour diffusion; in spot bonded and loose laid installation, in the points where it remains intact, preventing blisters and swelling.



TALC SURFACING. The talcing of the top face is carried out with a technique which evenly spreads the very thin talc over the top surface with a special pattern, preventing accumulation or zones without talc. This new system allows a quick unroll and gives the surface a pleasant aspect, which enables to torch it faster if compared to the other coarser mineral finishes.



SELF-PROTECTION WITH SLATE GRANULES. On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best regarding the properties and the use of the product. Considering

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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A SIKA COMPANY

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