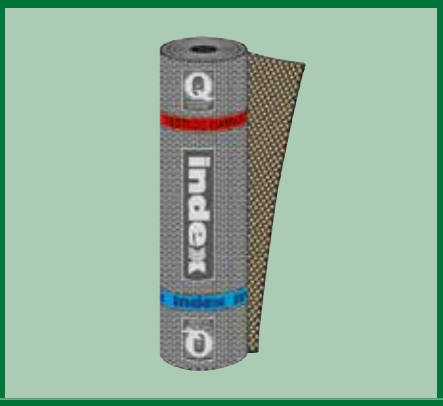


TESTUDO BIARMATO POLYESTER

ELASTOPLASTOMERIC DISTILLED POLYMER-BITUMEN WATERPROOFING MEMBRANE, MADE OF DISTILLED BITUMEN, PLASTOMERS AND ELASTOMERS

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONRMENTAL							METHOD OF USE				
EP		Reazione al fuoco		ASBESTOS FREE	TAR FREE	CHLORINE FREE								
ELASTOPLASTOMERIC	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

TESTUDO 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.
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.

APPLICATION FIELDS

The long lasting strength and elasticity at high and low temperatures make **TESTUDO BIARMATO POLYESTER** 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.
TESTUDO BIARMATO POLYESTER 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.

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

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

- **Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection**
  - TESTUDO BIARMATO POLYESTER
- **Upper layer in multi-layer systems without permanent heavy surface protection**
  - TESTUDO BIARMATO POLYESTER
- **Exposed single-layer**
  - TESTUDO BIARMATO POLYESTER
- **Single-layer under heavy protection**
  - TESTUDO BIARMATO POLYESTER
- **Under heavy protection in multi-layer systems**
  - TESTUDO BIARMATO POLYESTER

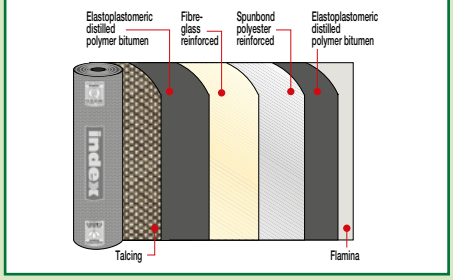
TECHNICAL CHARACTERISTICS

	Standard	T	TESTUDO BIARMATO POLYESTER	
Reinforcement			Fibreglass and "Non-woven" Spunbond polyester	
Thickness	EN 1849-1	±0,2	4.0 mm	5.0 mm
Roll size	EN 1848-1	–1%	1×10 m	1×10 m
Watertightness	EN 1928 – B	≥	60 kPa	
Maximum tensile force L/T	EN 12311-1	–20%	450/400 N/50mm	
Elongation L/T	EN 12311-1	–15% V.A.	60/60%	
Resistance to tearing (nail shank) L/T	EN 12310-1	–30%	170/180 N	
Dimensional stability L/T	EN 1107-1	≤	–0.20/+0.10%	
Flexibility to low temp. • after ageing	EN 1109 EN 1296-1109	≤ +15°C	–15°C –5°C	
Flow resist. at high temp. • after ageing	EN 1110 EN 1296-1110	≥ –10°C	120°C 110°C	
UV ageing	EN 1297		Test passed	
Reaction to fire Euroclass	EN 13501-1		E	
External fire performance	EN 13501-5		F roof (t1)	
Thermal specifications				
Thermal conductivity			0.2 W/mK	0.2 W/mK
Heat capacity			5.20 KJ/K	6.50 KJ/K

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

COMPOSITION OF THE MEMBRANE

TESTUDO BIARMATO POLYESTER



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 allow a quick unroll and gives the surface a pleasant aspect, which enable to torch it faster if compared to the other coarser mineral finishes.

• 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 •

index
Construction Systems and Products
Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67
T. +39 045 8546201 - F. +39 045 518390

Internet: www.index-spa.com
Informazioni Tecniche Commerciali
tecom@indexspa.it
Amministrazione e Segreteria
index@indexspa.it
Index Export Dept.
index.export@indexspa.it

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