





FIDIA

- FIDIA POLYESTER
- MINERAL FIDIA POLYESTER
- FIDIA/V

REINFORCED ELASTOPLASTOMERIC POLYMER-BITUMEN
WATERPROOFING MEMBRANE

CATEGORY	CHARACTERISTICS
 ELASTOPLASTOMERIC	 WATERPROOFING

DESCRIPTION

The **FIDIA** membranes are made up of distilled bitumen, selected for industrial use, with elastomeric and plastomeric polymers added 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 increased 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 membranes are reinforced with high weight, isotropic, thermally fixed, rot-proof, "non-woven" single strand Spunbond polyester fabric. The reinforcement is very strong, has a notable ultimate elongation and an optimal resistance to puncture and tearing.

FIDIA POLYESTER and **MINERAL FIDIA POLYESTER** are 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 banana effect and the retraction of head lap joints as it is 2 to 3 times more stable than normal reinforcements in "non woven" polyester fabric.

FIDIA/V is reinforced with rot-proof fibreglass mat which is strengthened longitudinally and has high dimensional stability properties.

The **FIDIA POLYESTER** and **FIDIA/V** membranes, produced in various thicknesses, have the upper face of the membrane 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 reliable and fast welding of the joints.

The **MINERAL** versions, produced in various weights, 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.

FIELDS OF USE

The long lasting strength, elasticity and stability at high and low temperatures make **FIDIA POLYESTER** and **MINERAL FIDIA POLYESTER** membranes ideal for use as a single or multi-layer waterproofing systems for new building work or for refurbishment:

- **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 common thermal insulation used in the building trade.
- **For the most varied uses:** terraces, flat and sloping roofs, dielectric and acid-proof coatings and walls in contact with the ground.

The high dimensional stability of **FIDIA/V** makes the membranes suitable for combining with elastomeric, elastoplastomeric and plastomeric membranes reinforced with "non woven" polyester fabric, to form double layer waterproofing systems.

FIDIA/V can also be used in a single layer as a vapour barrier.



EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

• **Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection**

- FIDIA POLYESTER 3 mm
- FIDIA POLYESTER 4 mm
- FIDIA POLYESTER 5 mm
- FIDIA/V 2 mm
- FIDIA/V 3 mm
- FIDIA/V 4 mm

• **Upper layer in multi-layer systems without permanent heavy surface protection**

- MINERAL FIDIA POLYESTER 4,0 mm
- MINERAL FIDIA POLYESTER 5,0 mm
- MINERAL FIDIA POLYESTER 4,0 kg/m²
- MINERAL FIDIA POLYESTER 4,5 kg/m²

EN 13969 - BITUMEN DAMP PROOF SHEET INCLUDING BITUMEN BASEMENT TANKING SHEETS

• **Membranes for foundations**

- FIDIA POLYESTER 3 mm
- FIDIA POLYESTER 4 mm
- FIDIA POLYESTER 5 mm

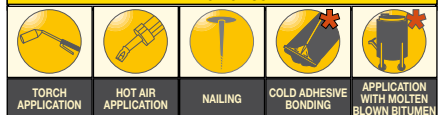
EN 13970 - BITUMEN WATER VAPOUR CONTROL LAYERS

- FIDIA/V 2 mm
- FIDIA/V 3 mm
- FIDIA/V 4 mm

EN 13859-1 - UNDERLAY FOR DISCONTINUOUS ROOFING

- MINERAL FIDIA POLYESTER 3,5 kg/m²
- MINERAL FIDIA POLYESTER 4,0 kg/m²
- MINERAL FIDIA POLYESTER 4,5 kg/m²

METHOD OF USE



* For waterproofing membranes with **TEXFLAMINA** underface finish only

TECHNICAL CHARACTERISTICS

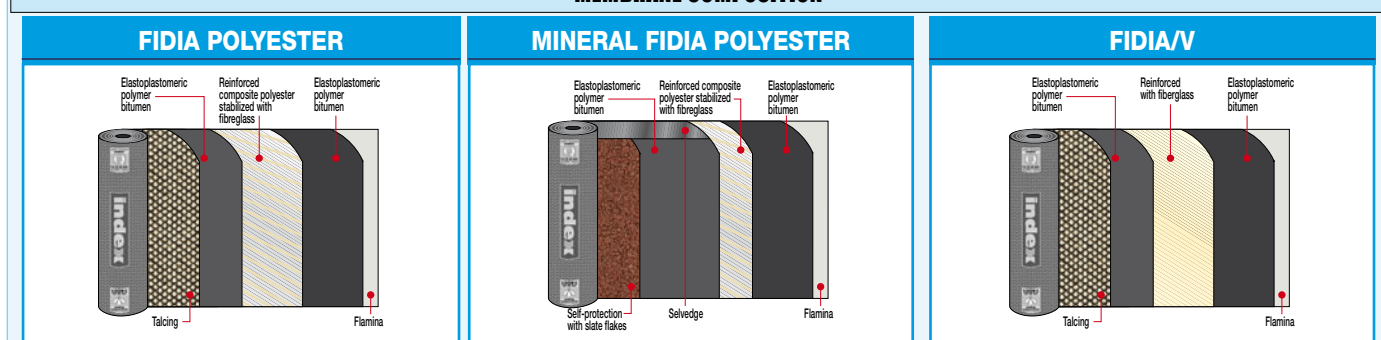
	T	FIDIA POLYESTER		FIDIA POLYESTER		MINERAL FIDIA POLYESTER		MINERAL FIDIA POLYESTER		FIDIA/V		
		3 mm	4 mm	5 mm	-	-	-	2,0 mm	3,0 mm	4,0 mm		
Thickness (EN 1949-1)	±0,2	3 mm	4 mm	5 mm	-	-	-	2,0 mm	3,0 mm	4,0 mm	-	-
Weight MINERAL (EN 1849-1)	±15%	-	-	-	3,5 kg/m ²	4,0 kg/m ²	4,5 kg/m ²	-	-	-	-	-
Roll size (EN 1848-1)	≥	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x10 m	1x20 m	-	-
Reinforcement		"Non-woven" composite polyester stab. with fibreglass		"Non-woven" composite polyester stab. with fibreglass		"Non-woven" composite polyester stab. with fibreglass		"Non-woven" composite polyester stab. with fibreglass		Fibreglass		
Watertightness (EN 1928 - B method)	≥	60 kPa	60 kPa	60 kPa	60 kPa	60 kPa	60 kPa	60 kPa	60 kPa	60 kPa	-	-
• after ageing (EN 1296-1928)	≥	60 kPa	60 kPa	60 kPa	-	-	-	-	-	-	-	-
Shear resistance (EN12317-1)	-20%	350/300 N/50 mm	350/300 N/50 mm	350/300 N/50 mm	-	-	-	200/100 N/50 mm	-	-	-	-
Maximum tensile force Long./Trasv. (EN 12311-1)	-20%	450/400 N/50 mm	450/400 N/50 mm	450/400 N/50 mm	450/400 N/50 mm	450/400 N/50 mm	450/400 N/50 mm	300/200 N/50 mm	-	-	-	-
• after ageing		-	-	-	NPD	NPD	NPD	-	-	-	-	-
Elongation (EN 12311-1)	-15 V.A.	40/40%	40/40%	40/40%	40/40%	40/40%	40/40%	2/2%	-	-	-	-
• after ageing		-	-	-	NPD	NPD	NPD	-	-	-	-	-
Resistance to impact (EN 12691 - A method)		1.000 mm	1.000 mm	1.000 mm	-	-	-	NPD	-	-	-	-
Resistance to static loading (EN 12730)		10 kg	10 kg	10 kg	-	-	-	-	-	-	-	-
Resistance to tearing (nail shank) (EN 12310-1)	-30%	130/130 N	130/130 N	130/130 N	-	-	-	70/70 N	-	-	-	-
Dimension stability (EN 1107-1)	≤	-	-0,25/0,10%	-0,25/0,10%	-	-	-0,25/0,10%	-	-	-	-	-
Flexibility to low temp. (EN 1109)	≤	-10°C	-10°C	-10°C	-10°C	-10°C	-10°C	-10°C	-	-	-	-
Flow resistance at elevated temperature (EN 1110)	≥	100°C	100°C	100°C	-	-	-	100°C	-	-	-	-
• after ageing at elevated temperature (EN 1296-1109)	-10°C	-	90°C	90°C	-	-	90°C	-	-	-	-	-
UV ageing (EN 1297)		NPD	Test passed	Test passed	-	-	-	-	-	-	-	-
Reaction to fire class (EN 13501-1)		Euroclass F	Euroclass F	Euroclass F	Euroclass F	Euroclass F	Euroclass F	Euroclass F	-	-	-	-
External fire performance (EN 13501-5)		F _{roof}	F _{roof}	F _{roof}	-	-	-	F _{roof}	-	-	-	-
Water vapour trasmission (EN 1931)	-20%	-	-	-	-	-	-	100.000	-	-	-	-
• after ageing (EN 1296-1931)		-	-	-	-	-	-	NPD	-	-	-	-
Res. to water penetration (EN 1928)		-	-	-	W1	W1	W1	-	-	-	-	-
• after ageing (EN 1296-1928)		-	-	-	W1	W1	W1	-	-	-	-	-

INDEX's exclusive production systems are covered by registered patents.

Fig. 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.

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

MEMBRANE COMPOSITION



PRODUCT FINISH



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.



TALCING. The talcing of the top face is carried out with a technique which evenly spreads the talc over the top surface with a special pattern, preventing accumulation and zones without talc. This new system makes it possible to quickly unroll the rolls and gives the surface an appearance which is pleasing to the eye.



MINERAL PROTECTION. 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.

• 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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Construction Systems and Products

Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67 - Tel. 045.8546201 - Fax 045.512444

INTERNET: www.indexspa.it
E-MAIL: index.export@indexspa.it

