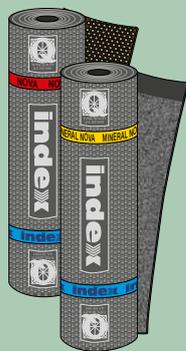


NOVA POLYESTER MINERAL NOVA POLYESTER

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



GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONMENTAL						METHOD OF USE					
EP	WATERPROOF	Reazione al fuoco	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 TEXLAMINA underface finish only

DESCRIPTION

The **NOVA** 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 waterproofing qualities of the bitumen remain unchanged.

NOVA POLYESTER is reinforced with an isotropic, thermally fixed, rot-proof, "non-woven" single strand spunbond polyester fabric, stabilized with fibreglass mat. The reinforcement is very strong, has a notable ultimate elongation and an optimal resistance to puncture and tearing. **MINERAL NOVA POLYESTER** is reinforced with an isotropic, thermally fixed, rot-proof, "non-woven" single strand spunbond polyester fabric, stabilized with fibreglass mat. This reinforcement has a high tensile strength, is flexible and has 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.

The **NOVA POLYESTER** 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.

APPLICATION FIELDS

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

- **On all sloped surfaces:** on flat, sloped 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.



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**
- NOVA POLYESTER
- **Upper layer in multi-layer systems without permanent heavy surface protection**
- NOVA POLYESTER
- MINERAL NOVA POLYESTER
- **Under heavy protection in multi-layer systems**
- NOVA POLYESTER

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

- **Membranes for foundations**
- NOVA POLYESTER

EN 13859-1 - UNDERLAY FOR DISCONTINUOUS ROOFING

- MINERAL NOVA POLYESTER

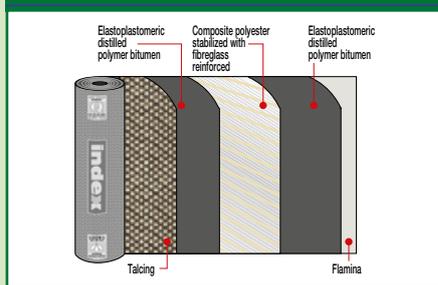
TECHNICAL CHARACTERISTICS

	Standard	T	NOVA POLYESTER	MINERAL NOVA POLYESTER	
Reinforcement			Tissu non tissé de polyester Spunbond stab. avec fibre de verre	Tissu non tissé de polyester Spunbond stab. avec fibre de verre	
Thickness	EN 1849-1	±0,2	4 mm	-	-
Mass per unit area MINERAL	EN 1849-1	±15%	-	4.0 kg/m ²	4.5 kg/m ²
Roll size	EN 1848-1	-1%	1x10 m	1x10 m	1x10 m
Watertightness	EN 1928 - B	≥	60 kPa	60 kPa	
• after ageing	EN 1926-1928	≥	60 kPa	-	
Shear resistance L/T	EN 12317-1	-20%	600/400 N/50 mm	-	
Maximum tensile force L/T	EN 12311-1	-20%	700/500 N/50 mm	700/500 N/50 mm	
• after ageing			-	NPD	
Elongation	EN 12311-1	-15% V.A.	40/45%	40/45%	
• after ageing			-	NPD	
Resistance to impact	EN 12691 - A		1250 mm	-	
Resistance to static loading	EN 12730 - A		15 kg	-	
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	160/200 N	160/200 N	
Dimensional stability L/T	EN 1107-1	≤	-0.3/+0.1%	-0.3/+0.1%	
Flexibility to low temperature	EN 1109	≤	-10°C	-10°C	
Flow resist. at high temp.	EN 1110	≥	120°C	120°C	
• after ageing	EN 1296-1110	-10°C	110°C	110°C	
Res. to water penetration	EN 1928		-	W1	
• after ageing	EN 1296-1928		-	W1	
UV ageing	EN 1297		Supera la prova	-	
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
Heat capacity			5.20 KJ/K	4.80 KJ/K	5.40 KJ/K

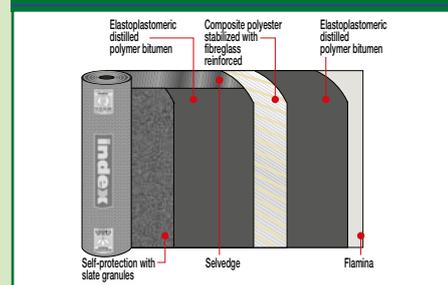
Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of $\mu = 20\ 000$ may be considered, unless declared otherwise.

COMPOSITION OF THE MEMBRANE

NOVA POLYESTER



MINERAL NOVA 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 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.

• 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

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