

ITALIANA® MEMBRANE

PLASTOMERIC MEMBRANES WITH POLYESTER REINFORCEMENT AND MINERAL SLATE

TECHNICAL DATASHEET

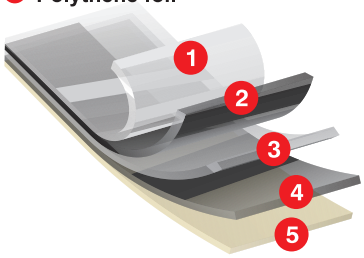
MINERAL ECOPLAST TNT

SURFACE HYDRO INSULATING MEMBRANES

PRODUCT DESCRIPTION

High quality plastomeric hydro insulating membrane, produced out of destilled bitumen, modified with polypropylene /APP/ additives. The reinforcement is of non-woven polyester. Its bottom surface is covered with easy to be burnt, thin polythene foil, that is melting completely and disappears in the torch's gas flame; and its upper face – is protected by homogeneous mineral slate layer; there is a loose end for welding by overlapping the neighbouring membrane. The mineral slate not only ensures aesthetic appearence of the assembled roof but is also an additional means of protection against ultra violet rays, ageing and mechanical damage of the membrane structure.

1. Grey mineral slate
2. Modified APP bitumen
3. Non-woven polyester
4. Modified APP bitumen
5. Polythene foil



APPLICATION

Plastomeric membrane, suitable for:

- Surface layer in hydro insulating coverings systems for flat roofs;
- Upper or singular layer for bases and underground walls of buildings.

SPECIFIC PROPERTIES OF MODIFIED BITUMINOUS MEMBRANES

- 10 years manufacturer's guarantee;
- Membranes are welded with gas flame burner, at low fuel consumption;
- Perfect adaptation to all kinds of building constructions (concrete, metal, panel, etc.);
- Applicable in residential, public and industrial buildings;
- Harmless to man, no requirements for special means of protection.

PACKING

Palettes, wrapped in polythene foil, with the name of the manufacturer and the basic product data printed on the label.

DIMENSIONS, PRODUCT RANGE AND PACKING

Weight (kg/m2)	Lenght (mm)	Width (mm)	m2 / roll	Number of rolls /palette	m2 / palette
3.50	10	1	10	25	250
4.00	10	1	10	23	230
4.50	10	1	10	20	200
5.00	10	1	10	18	180

TECHNICAL PARAMETERS

Typical Features		Symbol	Value	Unit	Standard
Bitumen		*APP*	Plastomeric	-	-
Reinforcement		*TNT*	Non-woven polyester 150	gr/m²	-
Upper face		*M*	Colored slate:	Grey, red, green, white, dark brown	
Bottom surface		*TF*	Melting foil	-	-
Softening point		t_t	> 145	°C	EN 1427
Cold flexibility		$t_{(-)}$	- 5	°C	EN 1109
Thermal dimensional stability		$t_{(+)}$	> 110	°C	EN 1110
Tensile properties	lengthwise	σ_l	700	N / 5cm	EN 12311 - 1
	crosswise	σ_t	450	N / 5cm	
Break elongation	lengthwise	-	35	%	EN 12311 - 1
	crosswise	-	45	%	
Resistance to static loading	On fibre cement	*L*	20	kg	EN 12730
	polysterol 20 kg/m2 thickness	*L*	15	kg	
Resistance to impact /polystirol of thickness: 20kg/m2		*I*	20	*mm*	EN 12691
Water tightness		*W*	Absolute	-	EN 1928
Number of water vapor transmission properties		*μ*	> 20 000	-	EN 1391
Reaction to fire		*E*	Self-extinguishing	-	EN 13501 - 1
Bulgarian Technical Approval		Protocol № 694-05/ 23.03.2005		CRICM, Sofia	EN 13707
Environment Management System		Cer. No. IT 04.1297 / 29.12.2004		SGS, Milano	ISO 14001:2000
Quality Management System		Cer. No. 97.160 / 21.02.2006		SGS, Milano	ISO 9001:2000

Any information contained in this datasheet describes the product properties applicable as at the time of issue. With respect to continuous development of these materials, changes to their properties may take place from time to time.

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