

**DELTAELAST P – DELTAELAST P MINERAL**

**-20°C**



**THE PRODUCT**

**DELTAELAST P** is an elastomeric type membrane , obtained from distilled bitumen modified with elastomeric polymers (SBS).

**DELTAELAST P** is reinforced with a “non woven” polyester composite fabric, stabilized with fiberglass mat. **Mineral** versions differ only by having a surface finish of slate chips.

**USES**

**DELTAELAST P** waterproofing membrane and finish/top sheet for use in applications on various roof types, whether they are insulated or not, especially those which are subject to high levels of stress such as tensile structures or metal profile decks. Ideal also for use in cold climates.

**DELTAELAST P MINERAL** waterproofing membrane and finish/top sheet for use in multi-layer applications on various roof types, whether they are insulated or not especially those which are subject to high levels of stress such as tensile structures or metal profile decks, and for use in cold climates.

**FINISHES**

**Upper surface**

**DELTAELAST P** membrane is available with sand finish, to ensure that the rolls unwind correctly. **DELTAELAST P MINERAL** membranes are covered by natural grey slate chips. A 8 cm wide strip is left free mineral chips to form overlap joint. This area, as in underside of the membrane, is protected by the application of polyethylene torch off heat sensitive film.

**Lower surface DELTAELAST P** have a polyethylene torch off heat sensitive film which prevents the rolls sticking together, allowing the gases to escape , besides giving a nice looking finish to the rolls.

**PACKAGING**

The rolls are generally 1 m wide and 10 m long. The upper tape indicates the product brand name and the lower tape the weight or thickness of the product. The rolls are supplied on wooden pallets and are held in place by a protective heat shrunk polythene covering. Each pallet has two Quality Control Tickets which enable an easy identification of the product and the retrieval of its technical characteristics when needed.

**TOOL REQUIREMENTS**

For the correct installation of **DELTAELAST P** type membranes, all that is required is a propane gas roofing torch with a gas bottle, reduction valve and at least 10 m of approved type hose, a round nosed trowel or spatula, a utility knife, and a pair of gloves.

**INSTALLATION**

The surface where the membrane has to be installed must be smooth , clean , dry and treated, if required, with primer coating (for example if the material has to be fully bonded) , to enhance the adhesion of the membrane to the substrate . The membrane rolls will be unrolled and laid out on the dry primer coating , then aligned before being rolled up again. The membrane is then slowly unrolled while the lower surface is heated using the propane gas roofing torch until the polyethylene torch off heat sensitive film melts and the bituminous compound starts melting . Side laps must be at least 80 mm and head laps 150 mm. After performing the overlap, the joint (while still hot) must be pressed , using a round nosed trowel , to ensure its good seal, and to level the molten bituminous compound that seeps from a correctly executed joint. The hot surface of the membrane should not be scraped using the trowel to avoid the exposure of the reinforcement.

DELTAELAST P					
Thickness mm	Weight Kg/m <sup>2</sup>	Lenght m	Width m	Rolls x plt	m <sup>2</sup> x plt
3	/	10	1	25	250
4	/	10	1	20	200
5	/	7,5	1	23	172,5

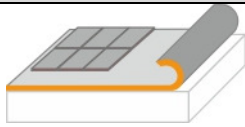
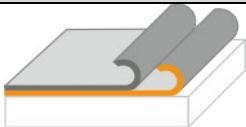
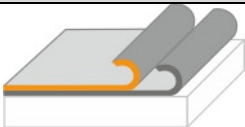

DELTAELAST P MINERAL					
Thickness mm	Weight Kg/m <sup>2</sup>	Lenght m	Width m	Rolls x plt	m <sup>2</sup> x plt
/	4	10	1	23	230
/	4,5	10	1	20	200
/	5	7,5	1	23	172,5

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Characteristics	Norms	U.M.	Test results			Tolerance
			DELTAELAST P	DELTAELAST P	DELTAELAST P MINERAL	
Norms	/	/	EN 13707 EN 13969	EN 13707 EN 13969	EN 13707	/
Carrier type	/	/	Polyester	Polyester	Polyester	/
Compound	/	/	BPE - Elastomeric Bitumen	BPE - Elastomeric Bitumen	BPE - Elastomeric Bitumen	/
Upper surfacing	/	/	Film PE / Sand	Film PE / Sand	Slate chips	/
Lower surfacing	/	/	Film PE	Film PE	Film PP	/
Type of application	/	/	SS-F	SS-SP-F	SF	/
Method of application	/	/	Torch	Torch	Torch	/
Visible defects	EN 1850-1	-	Pass	Pass	Pass	/
Length	EN 1848-1	m	≥ (10 m -1%)	≥ (10 m -1%) ≥ (7,50 -1%) (5 mm)	≥ (10 m -1%) ≥ (7,50 -1%) (5 kg)	/
Width	EN 1848-1	m	≥ (1 m -1%)	≥ (1 m -1%)	≥ (1 m -1%)	/
Straightness	EN 1848-1	-	Pass	Pass	Pass	/
Mass per unit area	EN 1849-1	kg/m <sup>2</sup>	/	/	4,0 - 4,5 - 5,0	- 10%
Thickness	EN 1849-1	mm	3	4 - 5	/	- 0,2 mm
Watertightness	EN 1928	-	Pass	Pass	Pass	/
Watertightness after artificial ageing	EN 1296 + EN 1928	-	Pass	Pass	/	/
External fire performance	EN 13501-5	-	F roof	F roof	F roof	/
Reaction to fire	EN 13501-1	-	EUROCLASSE F	EUROCLASSE F	EUROCLASSE F	/
Shear resistance of joint - heat lap - side lap	EN 12317-1	N/50 mm	400 300	400 300	400 300	- 20%
Tensile properties -maximum longitudinal tensile strength -maximum transversal tensile strength - longitudinal elongation - transversal elongation	EN 12311-1	N/50 mm N/50 mm % %	500 400 35 35	500 400 35 35	500 400 35 35	- 20% - 20% - 15 pp - 15 pp
Resistance to impact	EN 12691	mm	800	800	800	/
Resistance to static loading	EN 12730	kg	10	10	10	/
Resistance to tearing (nail shank) - longitudinal - transversal	EN 12310-1	N	160 160	160 160	160 160	-30% -30%
Dimensional stability	EN 1107-1	%	≤ 0,3	≤ 0,3	≤ 0,3	/
Flexibility at low temperature	EN 1109	°C	- 20	- 20	- 20	/
Flow resistance at elevated temperature	EN 1110	°C	95	95	95	/
Artificial ageing by long term exposure to elevated temperature	EN 1296 + EN 1109	°C	- 15	- 15	- 15	+ 15°C
Adhesion of granules	EN 12039	Loss %	/	/	≤ 30	/
Water vapour transmission properties	EN 1931	-	μ = 20.000	μ = 20.000	μ = 20.000	/

REV-01/16

TYPE APPLICATION – CE MARK			
			
<b>SP – Under heavy protection EN 13707</b>	<b>SS – Underlayer EN 13707</b>	<b>SF – Top layer EN 13707</b>	<b>F – Foundation EN 13969</b>

TECHNONICOL ITALIA srl reserves the right to modify the technical data in this specification sheet which is based on current production without prior warning.

All indications in this specification sheet are based upon our experience and current working practices.

**TECHNONICOL ITALIA s.r.l.**

Via Galoppat, 134 – 33087  
Pasiano di Pordenone (PN), Italia  
P.IVA 01745250934 - REA PN - 101202  
Tel.: 0434-614611, Fax: 0434-628178  
[www.technicol.it](http://www.technicol.it), [info@technicol.it](mailto:info@technicol.it)