

ELASTECH 1000 PLUS waterproofing membrane Technical Data Sheet

**Compound
SBS**

**Flexibility
-15°C**

rev. 05/2017

Description

ELASTECH 1000 PLUS are prefabricated modified polymer-bitumen made of distilled bitumen with elastomeric polymers (SBS), forming a compound whose characteristics are determined by the polymer matrix. The performance of the bitumen is therefore increased along with the durability and the resistance to high and low temperatures, while the optimum adhesive and impermeable qualities of bitumen remains unchanged.

ELASTECH 1000 PLUS membranes are reinforced with a Woven non Woven polyester fabric stabilized with longitudinal reinforcing threads, which provide the membrane with good mechanical characteristics and excellent dimensional stability in hot conditions, thus reducing the problems of the retraction of the head lap joints.

ELASTECH 1000 PLUS (P) and are available with sand or TNT (polypropylene mat) finish on the upper face to prevent the roll from sticking to itself and benefits the unrolling of the product during installation.

Mineral ELASTECH 1000 PLUS (PA) are supplied with mineral slate chips which are available in natural or colored version. This mineral finish acts as a weathering surface and enhances the aesthetics after application. A 10 cm side selvedge and a 15 cm end lap selvedge is provided to allow easy alignment of the membrane during application.

The lower face of both **ELASTECH 1000 PLUS & mineral ELASTECH 1000 PLUS** is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. The correct application temperature is visible from the lightly embossed surface of the membrane which is below the burn off film, when the correct application temperature is reached, this embossment melts also helping vapor diffusion and avoiding blistering.

Field of use

ELASTECH 1000 PLUS (P) & mineral ELASTECH 1000 PLUS (PA), due to the polyester reinforcement doubled with glass fibre longitudinal reinforcing threads, offers a very good static and dynamic puncture resistance, tensile strength, both longitudinal and transversal, and ultimate elongation. Are therefore recommended as a top sheet or intermediate layer in multi-layer waterproofing system for pitched, flat or vaulted metal or concrete roofs, foundations, terraces, for medium – or high complexity waterproofings where the stress endurance and flexibility are required.

Technical properties	M.U.	ELASTECH 1000 PLUS	Tolerances
Reinforcement		polyester	
Roll length (EN 1848-1)	M	10	± 0,2 %
Roll width (EN 1848 –1)	M	1	± 1 %
Nominal weight (EN 1849 – 1)	kg/m ²	3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6	± 7 %
Nominal thickness (EN 1849-1)	mm	3 / 4	± 7 %
Tensile strength (EN 12311-1)			
-longitudinal	N/ 5 cm	650	± 20 %
-transversal		500	
Ultimate elongation (EN 12311-1)			
-longitudinal	%	40	± 20 %
-transversal		40	
Cold flexibility (EN 1109)	°C	-15	-
Dimensional stability (EN 1107 –1)	%	0,2	max
Flow resistance (EN 1110)	°C	120	min
Shear resistance of joint (EN 12317-1)	N/5 cm	500 / 500	min
Resistance to static loading (EN 12730)	kg	20	min
Watertightness (EN 1928)	Kpa	60	min
Reaction to fire	Class	F	