ARCON S.R.L.

ELASTECH 1000 waterproofing membrane

Compound SBS

Flexibility -15^{0}C

Technical Data Sheet

rev. 05/2017

Description

ELASTECH 1000 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 & mineral ELASTECH 1000 (**P & PA**) 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.
The **V & VA** versions have a fibre glass reinforcement which is strengthened longitudinally and has high dimensional stability properties

ELASTECH 1000 (P) and **ELASTECH 1000 (V)** 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 (PA) and **mineral ELASTECH 1000 (VA)** 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 & mineral ELASTECH 1000** 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 (P) & mineral ELASTECH 1000 (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.

ELASTECH 1000 (V) & mineral ELASTECH 1000 (VA) on the other hand offers excellent dimensional stability and is normally used as a first layer in a two layer system or as a cap sheet, mineral slate version over a polyester.

Technical properties	M.U.	ELASTECH 1000		Tolerances
Reinforcement		glass fibre	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 -transversal	N/ 5 cm	 450 300	 500 350	± 20 %
Ultimate elongation (EN 12311-1) -longitudinal -transversal	%	 2 2	 30 35	± 20 %
Cold flexibility (EN 1109)	°C	-15		-
Dimensional stability (EN 1107 –1)	%	0,1	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	5	15	min
Watertightness (EN 1928)	Kpa	60		min
Reaction to fire	Class	F		