

## ARCO ALUTOP waterproofing membrane Technical Data Sheet

**Compound  
APP / SBS**

**Flexibility  
-5 / -15**

rev. 08/2015

### DESCRIPTION

**ARCO ALUTOP** are prefabricated modified polymer-bitumen membranes whose compound is composed of distilled bitumen and plastomers (APP) or styrene butadiene styrene (SBS) reinforced with a composite polyester or a glass fiber with longitudinal reinforcing. The modified compound offers good ageing properties, cold flexibility, durability and elasticity, thus prolonging the life of the waterproofing work

### COATING

**ARCO ALUTOP** membranes are protected with a foil of embossed aluminum. The special form of the embossment permits the free dilatation of the metal, while the innovative application technology of the aluminum foil ensure a good impregnation of the compound into these interstitial spaces. Concurrently with the utilization of a stable reinforcement, all these issues lead to the manufacturing of a dimensionally stable membrane, without any risks of delamination of the aluminum foil.

To allow a proper bonding between the sheets, the membranes are supplied with upper side seldvedge.

The lower face of **ARCO ALUTOP** is protected by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself.

### AREA OF USE

The use of the aluminum foil as upper side finish assures, besides the perfect watertight sealing, a better self-protection of the membrane – through its reflective properties against the heat and radiation, consequently ensures a longer life of the waterproofing.

The aluminum foil gives also great aesthetic values and enhances the building details.

Given the composition and characteristics of ARCO ALUTOP bituminous membrane, it can be easily used in a wide variety of waterproofing works, civil and industrial buildings, terraces, flat or pitched roof, on concrete or metal structure.

Technical properties	M.U.	ARCO ALUTOP PLASTO		ARCO ALUTOP ELASTO		Tolerances
		Glass fiber (V) / Polyester (P)		Glass fiber (V) / Polyester (P)		
Roll length (EN 1848-1)	m	10				± 0,2 %
Roll width (EN 1848 -1)	m	1				± 1 %
Nominal weight (EN 1849 - 1)	kg/m <sup>2</sup>	4 / 5				± 5 %
Nominal thickness (EN 1849-1)	mm	3 / 4				± 5 %
Cold flexibility (EN 1109)	°C	-5		-15		-
Tensile strength (EN 12311-1)		Glass fiber	Polyester	Glass fiber	Polyester	± 20 %
-longitudinal	N/ 5 cm	450	500	450	500	
-transversal		300	400	300	400	
Ultimate elongation (EN 12311-1)		Glass fiber	Polyester	Glass fiber	Polyester	± 20 %
-longitudinal	%	2	35	2	35	
-transversal		2	40	2	40	
Dimensional stability (EN 1107-1)	%	0,1	0,2	0,1	0,2	max
Flow resistance (EN 1110)	°C	130		120		min
Resistance to static loading (EN 12730)	kg	5	15	5	15	min
Shear resistance of joint (EN 12317-1)	N / 5 cm	400 / 400		500 / 500		min
Watertightness (EN 1928)	Kpa	60				min
Reaction to fire	class	F				