

ARCO ANTIROOT waterproofing membrane Technical Data Sheet

rev.03/2010

- **ARCO ANTIROOT** are prefabricated modified polymer-bitumen membranes whose compound is composed of distilled bitumen, polymers and special chemical additives against root penetration, reinforced with a Woven non Woven polyester fabric with scrim reinforcing threads. Those chemical additives resist at high temperatures, are not migrating into the soil and are not washed out by the water.
- The modified compound offers good ageing properties, cold flexibility (-5°C), durability and elasticity, while due to the polyester reinforcement doubled with glass fibre scrim reinforcing threads, offers a better dimensional stability, a good static and dynamic puncture resistance, tensile strength, both longitudinal and transversal, and ultimate elongation.
- **ARCO ANTIROOT** are supplied with sand, TNT (polypropylene mat) or mineral slate chips which are available in natural or coloured 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 **ARCO ANTIROOT** 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 embossed surface of the membrane which is below the burn off film, when the correct temperature is reached, this embossment melts also helping vapour diffusion and avoiding blistering.
- **ARCO ANTIROOT** is specially indicated for use in underground waterproofing like tunnels, foundations or pipes insulation, as much as for roof gardens.

Technical properties	M.U.	ARCO ANTIROOT	Tolerances
		P / PA	
Reinforcement		polyester GRID	
Roll length (EN 1848-1)	m	10	$\pm 0,2 \%$
Roll width (EN 1848 -1)	m	1	$\pm 1 \%$
Nominal weight (EN 1849 - 1)	kg/m ²	4 / 4,5 / 5 / 5,5	$\pm 7 \%$
Nominal thickness (EN 1849 - 1)	mm	4 / 5	
Cold flexibility (EN 1109)	$^{\circ}\text{C}$	-5	$\pm 2^{\circ}\text{C}$
Tensile strength (EN 12311-1)			
-longitudinal	N/ 5 cm	700	$\pm 20 \%$
-transversal		550	
Ultimate elongation (EN 12311-1)			
-longitudinal	%	45	$\pm 20 \%$
-transversal		45	
Dimensional stability (EN 1107 -1)	%	0,2	max
Flow resistance (EN 1110)	$^{\circ}\text{C}$	130	min
Resistance to static loading (EN 12730)	kg	25	min
Resistance to root penetration (EN 13948)		resist	
Watertightness (EN 1928)	Kpa	60	min
Reaction to fire (EN 13501-1)	Class	F	

**BAYER
MATERIAL
PROTECTION**



The main characteristic of the ARCO ANTIROOT membrane is granted by the PREVENTOL BAYER additives