

Technical Data Sheet

ARMEX BRIDGE PLASTO waterproofing membrane

rev. 07/2011

- **ARMEX BRIDGE PLASTO** is a prefabricated modified polymer-bitumen membrane which is composed of distilled bitumen and plastomer polymers (**APP**), reinforced with polyester type „ spunbond” with very high mechanical properties such as tensile strength and puncture resistance. The modified compound offers excellent ageing properties, cold flexibility (-10°C), durability and a high mechanic al resistance.
- These special characteristics of the membrane give a particular role in waterproofing applications subject to heavy traffic: road and rail bridges, overpasses, viaducts, tunnels, etc.
- **ARMEX BRIDGE ELASTO** membranes are made with sand, mineral slate upper finish or polypropylene nonwoven mat (TNT). This type TNT finish increases cohesion during application of the final coat, while protecting the membrane surface after application.
- The lower face of **ARMEX BRIDGE ELASTO** is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. Heating the membrane over the optimum temperature may cause changes in the structure of the material.

Technical properties	M.U.	ARMEX BRIDGE PLASTO P/PA	Tolerance
Reinforcement	-	SPUNBOND polyester 230 g	-
Upper face finish	-	sand / mineral slates / TNT	-
Lower face finish	-	polyethylene burn-off film	-
Roll length (SR EN 1848-1)	m	8	± 0,2 %
Roll width (SR EN 1848 -1)	m	1	± 1 %
Thickness (SR EN 1849 – 1)	mm	4 / 5	± 7 %
Tensile strength (SR EN 12311-1)			
- longitudinal	N/ 5 cm	1100	± 10 %
- transversal		900	
Ultimate elongation(SR EN 12311-1)			
- longitudinal	%	50	± 10 %
- transversal		50	
Static puncture resistance (SR EN 12730)	N	300	± 15 %
Cold temperature flexibility (SR EN 1109)	°C	-10	± 2 °C
Water absorption max. (SR 137)	%	0,45	-
Dimensional stability at high temperature (SR 137)	°C	150	min
Cyclical heating resistance (25 cycles -20°C+60°C) (SR 137)	Permeability change	watertight	-
Bonding resistance in the plane perpendicular on the surface (Pull up test)(SR EN 13596)			
- at + 8°C	N/mm ²	0,7	min
- at +23°C		0,5	
Water tightness - 72 h (SR EN 1928)	1000 Pa	watertight	-
Stability of physical and mechanical characteristics at high temp. (140°C) (AND 577)	%	1,3	-
Permeability to water vapors (SR EN 12572)	μ	48.000	± 15 %
Tearing resistance (SR EN 12310-1):			
- longitudinal	N	250	± 15 %
- transversal	N	245	
Maximum temperature of asphalt application without adverse effects (SR 137)	180°C	No adverse effects recorded at + 180°C	-
In-service temperature range	°C	-20°C ÷ +70°C	-