

Technical Data Sheet rev. 07/2011
ARMEX BRIDGE ELASTO waterproofing membrane

- **ARMEX BRIDGE ELASTO** is a prefabricated modified polymer-bitumen membrane which is composed of distilled bitumen and elastomers (**SBS**), 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 (-20°C), durability and a high mechanical resistance.
- The elastomers used in the bituminous compound are creating a structure like a net, including the bitumen particles and therefore creating a compact mass, flexible and adhesive but also with higher resistance to elevated temperature (+130°C).
- 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 of 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 ELASTO 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	-20	± 2 °C
Water absorption max. (SR 137)	%	0,5	-
Dimensional stability at high temperature (SR 137)	°C	130	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) (AND577)	%	1,6	-
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	-