

the STANDARD class	Technical sheet	TechnoNICOLE
Russia	<b>Bipole</b> Roll-fed, roofing, damp-proof welded-on material	TS 5774-008-17925162-2002

**Application areas:** Designed for construction of roof cladding of buildings and constructions and for waterproofing of engineering structures.

**Composition:** Bipole is produced by two-sided placing of bituminous bonder, consisting of bitumen, filler and fabrication aids, on the fibre-glass (glass-fibre mat, glass-cloth) or polyester base, with subsequent placement of protective layers on both sides of the material. As the protective layers, hard-grained (slate, asbestos chips), fine-grained (sand) dressing compounds and polymer film are used.

**Grades:** Depending on the types of the protective covers and the application areas, Bipole is produced of the following grades:

Bipole K, Bipole Tropic K with hard-grained dressing compound on the face and a polymeric film on the welded-on part of the material; it is to be used for installation of the top layer of roof cladding;

Bipole P, Bipole Tropic P with fine-grained dressing compound or a polymeric film on the face and a polymeric film on the bottom of the material or fine-grained dressing compound on both the sides of the material; it is to be used for installation of the bottom layers of roof cladding and for waterproofing of engineering structures.

### Basic physical and mechanical properties

Property name	Material			
	Bipole P	Bipole K	Bipole Tropic P	Bipole Tropic K
Mass of 1 sq. m, kg, not less than	3,0	4,0	3,0	4,0
Longitudinal / transverse breaking load, H, not less than				
polyester	360	360	360	360
glass-cloth	800	800	800	800
glass-fibre mat	294	294	294	294
Mass of the bonding material on the welded-on side, kg per sq. m, not less than	1,5	1,5	1,5	1,5
Water absorption during 24 h, mass %, not to exceed	1	1	1	1
Roofing sand loss, g per sample, not to exceed	-	1	-	1
Brittle point of the bonding material, °C, not to exceed	minus 25	minus 25	minus 15	minus 15
Bend point on a R=25 mm beam, °C, not to exceed	minus 15	minus 15	minus 5	minus 5
Water resistance at water pressure of not less than 0.001 MPa during 72 h	-	absolute	-	absolute
Water resistance at water pressure of not less than 0.2 MPa during 2 h	absolute	-	absolute	-
Heat endurance, °C, not less than	85	85	120	120
Protective covering type		granulated material, slate	film	granulated material, slate
on the top	film		film	
on the bottom	film	film	film	film
Length / width, m	15x1	10x1	15x1	10x1

**Performance of works:** according to the "Manual for Designing and Installation of Bituminous Roofs as Manufactured by the TechnoNICOLE Roofing Company", may be used in all climate zones as determined in Construction Codes and Regulations (SNiP) 23-01.

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