

the Business class	Technical sheet	TechnoNICOLE
Russia	Uniflex Roll-fed, roofing, damp-proof welded-on bitumen-polymer material	TS 5774-001-17925162-99

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

Composition: Uniflex is produced by two-sided placing of bituminous polymeric bonder, consisting of bitumen, butadiene-styrene thermoplastic elastomer and filler, on the fibre-glass or polyester base. As the protective layer, hard-grained or fine-grained dressing compounds, foil and polymer film are used.

Grades: Depending on the types of dressing compound and the application areas, Uniflex is produced of two grades:

Uniflex K with hard-grained dressing compound or foil 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;

Uniflex P with fine-grained dressing compound or a polymeric film on the both 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	
	Uniflex P	Uniflex K
Mass of 1 sq. m, kg, not less than	3,6	4,7
Thickness, mm	2,8	3,8
Longitudinal / transverse breaking load, H, not less than		
polyester	500/350	500/350
glass-cloth	800/900	800/900
glass-fibre mat	294	294
Mass of the bonding material on the welded-on side, kg per sq. m, not less than	2,0	2,0
Water absorption during 24 h, mass %, not to exceed	1	1
Roofing sand loss, g per sample, not to exceed	-	1
Brittle point of the bonding material, °C, not to exceed	minus 30	minus 30
Bend point on a R=25 mm beam, °C, not to exceed	minus 20	minus 20
Water resistance at water pressure of not less than 0.001 MPa during 72 h	-	absolute
Water resistance at water pressure of not less than 0.2 MPa during 2 h	absolute	-
Heat endurance, °C, not less than	95	95
Protective covering type		
on the top	film	granulated material, slate
on the bottom	film	film
Length / width, m	10x1	10x1

* - Referential value

Performance of works: according to the "Manual for Designing and Installation of Roofs of Bituminous and Polymeric Materials 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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