

the Business class	Technical sheet	TechnoNICOLE
Russia	<b>Ecoflex</b> Roll-fed, roofing, damp-proof welded-on material	TS 5774-003-17925162-2000

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

**Composition:** Ecoflex is produced by two-sided placing of bituminous polymeric 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 layer, hard-grained (slate, asbestos chips), or fine-grained (sand) dressing compounds, and polymer film are used.

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

Ecoflex 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;

Ecoflex P with 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	
	Ecoflex P	Ecoflex K
Mass of 1 sq. m, kg, not less than	3,5	4,6
Thickness, mm	2,8	3,8
Longitudinal / transverse breaking load, H, not less than polyester glass-cloth glass-fibre mat	500/350 800/900 294	500/350 800/900 294
Mass of the bonding material on the welded-on side, kg per sq. m, not less than	1,5	1,5
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 15	minus 15
Bend point on a R=25 mm beam, °C, not to exceed	minus 10	minus 10
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	130	130
Protective covering type on the top on the bottom	film film	granulated material, slate 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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