



## KÖSTER TPO 1.5 SK (FR) SG

Technical Data Sheet RT 815 SK (FR) SG

Issued: 2021-08-13

Investigation Report 1201/016/16 DIN EN 13956 MPA Braunschweig  
Investigation Report 5278/015/14 DIN EN 13967 MPA Braunschweig  
Certificate of Conformity of Factory Production Control 0761-CPR-0422/0423 MPA Braunschweig  
Fish test A14-02548 BMG Zurich  
Investigation Report 1615/1616 based on ETAG 006 Institut Würfel

### Polyolefin based waterproofing membrane (TPO/FPO) with centrally embedded glass fleece, special self-adehered fleece laminated underside, and improved flame-resistant properties (FR)

#### Features

- fast and easy installation
- self-adhesive on many substrates
- very economical
- maximum safety against wind suction forces
- single layer waterproofing
- with improved flame-resistant properties
- for direct adhesion to EPS insulation
- fulfills requirements for "hard roofs" and classified as B<sub>roof</sub> (t1) and B<sub>roof</sub> (t4)
- uniform material quality (no difference between upper and lower side)
- homogeneous seam bonding with hot air welding
- temperature and weather resistant
- aging and rot resistant
- high cold flexibility ( $\leq -50^\circ\text{C}$ )
- UV-stable
- root resistant
- compatible with bitumen
- compatible with polystyrene
- suitable for all types of insulation
- resistant against normal mechanical stresses
- resistant to microorganisms and rodent attack
- environmentally friendly
- free of softeners and chlorine
- safe for health, water, soil, and plants
- recyclable

	Prod. code RT 820 U SG
	Prod. code RT 902 001 SG
KÖSTER TPO Metal Composite Sheet slate grey	Prod. code RT 910 002 SG
KÖSTER TPO Metal Composite Coil slate grey	Prod. code RT 910 030 SG
KÖSTER Wall connection profile 60 mm	Prod. code RT 919 003
KÖSTER Bar for membrane fastening	Prod. code RT 919 004

#### Technical Data

Refer to last page

#### Fields of Application

KÖSTER TPO SK Roofing and Waterproofing Membranes are used to waterproof unventilated and ventilated flat roofs, pitched roofs, green roofs, terraces, balconies, roof gardens and underground garages with ballast and in cases of direct exposure to weathering. KÖSTER TPO SK Roofing and Waterproofing Membranes can be used for the waterproofing of wet rooms and tanks. The installation in building waterproofing according to DIN 18195, DIN 18531-18535 is possible.

#### Application

Please refer to the Installation Instructions of KÖSTER BAUCHEMIE AG for correct application of KÖSTER TPO Roofing and Waterproofing Membranes.

#### Packaging


RT 815 105 SK FR SG                      1.5 mm x 1.05 m x 20 m

#### Related products

KÖSTER TPO SK Primer                      Prod. code RT 103 012

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of application have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

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 <b>0761</b> <b>15</b>	<b>KÖSTER BAUCHEMIE AG</b> Dieselstraße 1-10, 26607 Aurich  <b>KÖSTER TPO 1.5 SK (FR)</b> <b>EN 13956 0761-CPR-0422</b> <b>EN 13967 0761-CPR-0423</b> <b>Polyolefin FPO (PE) based waterproofing membrane with central glass fleece insert and fleece laminated underside</b>	
Length according to DIN EN 1848-2	20 m	
Width according to DIN EN 1848-2	1.05; 0.525 m	
Effective thickness according to DIN EN 1849-2	1.5 mm	
Total thickness DIN EN 1849-2	1.85 mm	
	<b>DIN EN 13956: 2012</b> <b>waterproofing of flat and sloped roofs. Application by loose laying with ballast, mechanical fastening, full surface, or strip adhesion.</b>	<b>DIN EN 13967:2004</b> <b>Moisture Barrier Type T</b>
<b>Designation</b> according to DIN V 20000-201 and DIN V 20000-202	DE/E1-FPO-BV-E-GV-1,5-SK	BA-FPO-BV-E-GV-1,5-SK
<b>Color</b>	slate grey	slate grey
<b>Visible Defects</b> according to DIN EN 1850-2	free from visible defects	free from visible defects
<b>Straightness</b> according to DIN EN 1848-2	≤ 50 mm	≤ 50 mm
<b>Flatness</b> according to DIN EN 1848-2	≤ 10 mm	≤ 10 mm
<b>Mass per unit area</b> according to DIN EN 1849-2	1780 g /m <sup>2</sup>	1780 g /m <sup>2</sup>
<b>Water tightness</b> according to DIN EN 1928 (Method B)	10 kPa/24h watertight	400 kPa/72h watertight
<b>Exposure to liquid chemicals, including water</b> according to DIN EN 1847	passed (Method B)	watertight (Method A)
<b>Exposure to external fire</b> according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5	B <sub>roof</sub> (t1);B <sub>roof</sub> (t4) <sup>1)</sup>	-
<b>Reaction to fire</b>	Class E	Class E
<b>Resistance to hail</b> according to DIN EN 13583		
Rigid substrate	≥ 25 m/s	-
Soft substrate	≥ 43 m/s	-
<b>Peel resistance of the overlap</b> according to DIN EN 12316-2	Type of failure: 100% C → No failure in the overlap	-
<b>Shear resistance of the overlap</b> according to DIN EN 12317-2	Failure beyond the overlap	Failure beyond the overlap
<b>Tensile characteristics</b> according to DIN EN 12311-2		
Tensile strength	≥ 750 N/50 mm (Method A)	≥ 750 N/50 mm (Method A)
Elongation at break	≥ 30 % (Method A)	≥ 30 % (Method A)
<b>Resistance to shock loads</b> according to DIN EN 12691		
Method A	≥ 800 mm	≥ 800 mm
Method B	≥ 1750 mm	≥ 1750 mm
<b>Resistance to static loading</b> according to DIN EN 12730		
Method A	≥ 20 kg	≥ 20 kg
Method B	≥ 20 kg	≥ 20 kg
<b>Tear continuation resistance</b> according to DIN EN 12310-2	≥ 250 N	≥ 250 N
<b>Root penetration resistance</b> <sup>2)</sup>	given	-
<b>Dimensional stability</b> according to DIN EN 1107-2	≤ 0.2 %	≤ 0.2 %
<b>Folding at low temperatures</b>	≤ - 50 °C	-
according to DIN EN 495-5		
<b>Behavior under UV irradiation, elevated temperatures, and water</b> according to DIN EN 1297 (1000 h)	passed: Level 0	-
<b>Ozone resistance</b> according to DIN EN 1844	passed	-
<b>Exposure to bitumen</b> according to DIN EN 1548	passed	watertight
<b>Durability against heat storage</b>	watertight	watertight
according to DIN EN 1296, DIN EN 1928 (Method A)		

1) Requirements are met for roofs tested by KÖSTER in Germany. Further information can be requested from KÖSTER. 2) Applies only to green roofs

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