KÖSTER
Waterproofing Systems

KÖSTER TPO 2.0 SK (FR)

Technical Data Sheet RT 820 SK (FR)

Issued: 2025-10-16

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 with centrally embedded glass fleece and special self-adehered fleece laminated underside

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 Broof (t1) and Broof (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 (≤ -50 °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

Technical Data
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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 820 105 SK FR	2.0 mm x 1.05 m x 20 m

Other
For the manufacturer's warranty of KÖSTER BAUCHEMIE AG for TPO roofing membranes, the inspection of and compliance with the KÖSTER Roof Inspection and Maintenance Manual is mandatory.

Related products

KÖSTER TPO SK Primer	Prod. code RT 103 012
KÖSTER TPO 2.0 U	Prod. code RT 820 U
KÖSTER External Corner light grey 90 degrees	Prod. code RT 901 001
KÖSTER Internal Corner light grey 90 degrees	Prod. code RT 902 001
KÖSTER TPO Metal Composite Sheet light grey	Prod. code RT 910 002
KÖSTER TPO Metal Composite Coil light grey	Prod. code RT 910 030
KÖSTER Wall connection profile 60 mm	Prod. code RT 919 003
KÖSTER Bar for membrane fastening	Prod. code RT 919 004

R - Roofing membranes, roof waterproofing

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CE 0761 15	**KÖSTER BAUCHEMIE AG** **Dieselstraße 1-10, 26607 Aurich** **KÖSTER TPO 2.0 SK (FR)** **EN 13956 0761-CPR-0422** **EN 13967 0761-CPR-0423** **Polyolefin FPO (PE) based waterproofing membrane with central glass fleece insert and fleece laminated underside**	
Length according to DIN EN 1848-2	20 m	
Width according to DIN EN 1848-2	1.05 m	
Effective thickness according to DIN EN 1849-2	2.00 mm	
Total thickness DIN EN 1849-2	2.35 mm	
	DIN EN 13956: 2012 waterproofing of flat and sloped roofs.	**DIN EN 13967:2004 Moisture Barrier Type T**
Designation according SPEC 20000-201 and SPEC 20000-202	DE/E1-FPO-BV-E-GV-2,0-SK	BA-FPO-BV-E-GV-2,0-SK
Color	light grey	light grey
Visible Defects according to DIN EN 1850-2	free from visible defects	free from visible defects
Straightness according to DIN EN 1848-2	≤ 50 mm	≤ 50 mm
Flatness according to DIN EN 1848-2	≤ 10 mm	
Mass per unit area according to DIN EN 1849-2	2370 g /m²	2370 g /m²
Water tightness according to DIN EN 1928 (Method B)	400 kPa/72h watertight	400 kPa/72h watertight
Exposure to liquid chemicals, including water according to DIN EN 1847	passed (Method B)	watertight (Method A)
Exposure to external fire according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5	Broof(t1) [1]	-
Reaction to fire	Class E	Class E
Resistance to hail according to DIN EN 13583		
Rigid substrate	≥ 35 m/s	-
Soft substrate	≥ 43 m/s	
Peel resistance of the overlap according to DIN EN 12316-2	> 400 N/50mm [2]	-
Shear resistance of the overlap according to DIN EN 12317-2	Failure beyond the overlap [2]	Failure beyond the overlap [2]
Water vapor diffusion resistance according to DIN EN 1931	μ = 85.000; Sd = 170 m	μ = 85.000; Sd = 170 m
Tensile characterisitcs according to DIN EN 12311-2		
Tensile strength	≥ 850 N/50 mm (Method A)	≥ 850 N/50 mm (Method A)
Elongation at break	≥ 40 % (Method A)	≥ 40 % (Method A)
Resistance to shock loads according to DIN EN 12691		
Method A	≥ 800 mm	≥ 800 mm
Method B	≥ 1750 mm	≥ 1750 mm
Resistance to static loading according to DIN EN 12730		
Method A	≥ 20 kg	≥ 20 kg
Method B	≥ 20 kg	≥ 20 kg
Tear continuation resistance according to DIN EN 12310-2	≥ 300 N	≥ 300 N
Root penetration resistance [3]	given	-
Dimensional stability according to DIN EN 1107-2	≤ 0.2 %	≤ 0.2 %
Folding at low temperatures according to DIN EN 495-5	≤ - 50 °C	-
Behavior under UV irradiation, elevated temperatures, and water according to DIN EN 1297 (5000 h)	passed: Level 0	-
Ozone resistance according to DIN EN 1844	passed	-
Exposure to bitumen according to DIN EN 1548	passed	watertight
Durabilty against heat storage according to DIN EN 1296, DIN EN 1928 (Method A)	watertight	watertight

1) Requirements are met for roofs tested by KÖSTER in Germany. Further information can be requested from KÖSTER.
2) Value measured under laboratory conditions in accordance with EN 12316-2 and EN 12317-2. In addition to the product properties, the peel value depends on the processing and the construction site environment. It is essential that the shear value test results in a break outside the joint seam (also under construction site conditions).
3) Applies only to green roofs

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