



KÖSTER TPO 2.0 F (FR)

Technical Data Sheet RT 820 F (FR)

Prod. code RT 104 001

Prod. code RT 901 001

Prod. code RT 902 001

Prod. code RT 910 002

Prod. code RT 820 U

Issued: 2019-10-07

Official Test Report according to 1200/413/15 DIN EN 13956 MPA Braunschweig, Official Test Report according to 5278/015/14 DIN EN 13967 MPA Braunschweig, Certificate of conformity of the factory production control 0761-CPR-0422 MPA Braunschweig, Fish test A14-02548 BMG Zürich, Official Test Report according to ETAG 006 4/2015 I.F.I. Aachen

TPO Roofing and Waterproofing membrane with central glass fleece insert and an additional polyester fleece backing and improved flameresistant properties (FR)

KÖSTER 2C PUR Membrane Adhesive

KÖSTER External Corner light grey 90

KÖSTER Internal Corner light grey 90

KÖSTER TPO Metal Composite Sheet

KÖSTER TPO Metal Composite Coil grey Prod. code RT 910 030

KÖSTER TPO 2.0 U

degrees

degrees

Features

- Plastic waterproofing membrane made of high quality thermoplastic polyolefins based on polyethylene (PE)
- central glass fleece insert
- Polyester fleece backside
- uniform material quality (no difference between upper and lower side) with improved flame-resistant properties
- for direct adehsion to EPS insulation
- fulfills requirements for "hard roofs" and classified as $B_{\text{roof}} \ (t1)$ for direct laying on EPS insulation
- 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 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 Roofing and Waterproofing Membranes can be used for the waterproofing of basements, wet rooms and tanks. KÖSTER TPO F (FR) membranes are designed for direct laying on EPS insulating material.

Application

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

Packaging

RT 820 052 F FR 2.0 mm x 0.525 m x 20 m RT 820 105 F FR 2.0 mm x 1.05 m x 20 m RT 820 150 F FR 2.0 mm x 1.50 m x 20 m

Related products

KÖSTER PUR Membrane Adhesive

Prod. code RT 101

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 technology 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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KÖSTER TPO 2.0 F (FR) 1/2



	KÖSTER BAUCHEMIE AG	
	Dieselstraße 1-10, 26607 Aurich	
	KÖSTER TPO 2.0 F (FR)	
	EN 13956 0761-CPR-0422	
0761	EN 13967 0761-CPR-0423	
15	TPO (PE) roofing and waterproofing membrane with central glass fleece	
	insert and fleece laminated underside	
Length according to DIN EN 1848-2	20 m ¹⁾	
Width according to DIN EN 1848-2	1.50; 1.05; 0.525 m	
Effective thickness according to DIN EN 1849-2	2.0 mm	
Total thickness DIN EN 1849-2	2.8 mm	
	DIN EN 13956: 2012	DIN EN 13967:2012
	waterproofing of flat and sloped	Vapor Barrier Type T
	roofs. Application by loose laying	
	with ballast, mechanical fastening,	
	full surface or strip adhesion.	
B	DE/E4 EDO DV 5 0V 5 5	DA EDO DV E CV C C
Designation according DIN SPEC 20000-201 and DIN SPEC	DE/E1-FPO-BV-E-GV-2,0	BA-FPO-BV-E-GV-2,0
20000-202	2)	12.14
Color	Standard: light grey 2)	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	2045 - 1-2
Mass per unit area according to DIN EN 1849-2	2215 g /m²	2215 g /m²
Water tightness according to DIN EN 1928 (Method B)	400 kPa/24h watertight	400 kPa/72h watertight
Exposure to liquid chemicals, including water according to	passed (Method B)	watertight (Method A)
DIN EN 1847	D ((4)3)	
Exposure to external fire according to DIN CEN/TS 1187; DIN	Broof(t1) ³⁾	-
4102-7; DIN EN 13501-5	O	0. 5
Reaction to fire according to EN 13501-1	Class E	Class E
Resistance to hail according to DIN EN 13583	> 05/-	
Rigid substrate	≥ 25 m/s	-
Soft substrate	≥ 43 m/s	
Peel resistance of the overlap according to	> 500 N/50mm	-
DIN EN 12316-2	Failure have and the average	Fallura havened the averders
Shear resistance of the overlap according to DIN EN 12317-2	Failure beyond the overlap	Failure beyond the overlap
Tensile characterisitcs according to DIN EN 12311-2	> 1000 N/F0 mm (Mathed A)	> 1000 N/E0 mm (Mathad A)
Tensile strength	≥ 1000 N/50 mm (Method A)	≥ 1000 N/50 mm (Method A)
Elongation at break Posictance to shock loads according to DIN EN 12691	≥ 50 % (Method A)	≥ 50 % (Method A)
Resistance to shock loads according to DIN EN 12691	> 700 mm	> 700 mm
Method A Method B	≥ 700 mm ≥ 1500 mm	≥ 700 mm ≥ 1500 mm
Resistance to static loading according to DIN EN 12730	_ 1300 mm	= 1000 IIIII
Method A	≥ 20 kg	≥ 20 kg
Method B	≥ 20 kg ≥ 20 kg	≥ 20 kg ≥ 20 kg
Tear continuation resistance according to DIN EN 12310-2	≥ 20 kg ≥ 350 N	≥ 20 kg ≥ 350 N
Root penetration resistance ⁴⁾	given	- 000 14
Dimensional stability according to DIN EN 1107-2	given ≤ 0.2 %	≤ 0.2 %
Folding at low temperatures	≤-50°C	
according to DIN EN 495-5		
Behavior under UV irradiation, elevated temperatures, and	passed: Level 0	-
water according to DIN EN 1297 (1000 h)	passoa. 2070. 0	
Ozone resistance according to DIN EN 1844	passed	-
Exposure to bitumen according to DIN EN 1548	passed	watertight
Durability against heat storage	watertight	watertight
according to DIN EN 1296, DIN EN 1928 (Method A)		
Tear resistance (nail shank) according to DIN EN 12310-1	≥ 500 N	≥ 500 N
1) Special lengths available on request 2) Other colors available or	l e e e e e e e e e e e e e e e e e e e	

¹⁾ Special lengths available on request 2) Other colors available on request 3) Requirements are met for roofs tested by KÖSTER in Germany. Further information can be requested from KÖSTER. 4) Applies only to green roofs

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