



## **KÖSTER TPO 2.0**

**Technical Data Sheet RT 820** 

Prod. code RT 902 001

Prod. code RT 910 002

Issued: 2019-10-07

EPD-KBC-20160014-IBC1-DE Environmental Product Declaration according to the ISO 14025 and EN 15804

Official Test Report according to 1200/057/15 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

degrees

Grey

KÖSTER Internal Corner light grey 90

KÖSTER TPO Metal Composite Sheet

#### **Features**

- Plastic waterproofing membrane made of high quality thermoplastic polyolefins based on polyethylene (PE)
- central glass fleece insert
- 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**

Refer to last page

#### **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.

#### 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**

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RT 820 025	2.0 mm x 0.25 m x 20 m
RT 820 035	2.0 mm x 0.35 m x 20 m
RT 820 052	2.0 mm x 0.525 m x 20 m
RT 820 075	2.0 mm x 0.75 m x 20 m
RT 820 105	2.0 mm x 1.05 m x 20 m
RT 820 150	2.0 mm x 1.50 m x 20 m
RT 820 210	2 0 mm x 2 10 m x 20 m

#### Related products

KÖSTER Contact AdhesiveProd. code RT 102KÖSTER TPO 2.0 UProd. code RT 820 UKÖSTER External Corner light grey 90Prod. code RT 901 001

degrees

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 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 BAUCHEMIE AG		
	Dieselstraße 1-10, 26607 Aurich		
	KÖSTER TPO 2.0 EN 13956 0761-CPR-0422 EN 13967 0761-CPR-0423		
0761			
15	TPO (PE) roofing and waterproofing membrane with		
	central glass fleece insert		
Length according to DIN EN 1848-2	20 m <sup>1)</sup>		
Width according to DIN EN 1848-2	2.10; 1.50; 1.05; 0.75; 0.525; 0.35; 0.25 m		
Effective thickness according to DIN EN 1849-2	2.0 mm		
	DIN EN 13956: 2012 waterproofing of flat and sloped	DIN EN 13967:2012 Vapor Barrier Type T	
	roofs. Application by loose laying with ballast or mechanical fastening		
<b>Designation</b> according DIN SPEC 20000-201 and DIN SPEC 20000-202	DE/E1-FPO-BV-E-GV-2,0	BA-FPO-BV-E-GV-2,0	
Color	Standard: light grey <sup>2)</sup>	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	= 00 IIIII	
Mass per unit area according to DIN EN 1849-2	1930 g /m²	1930 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	passed (Method B)	watertight (Method A)	
DIN EN 1847	,	watertight (Method A)	
Exposure to external fire according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5		-	
Reaction to fire according to EN 13501-1 Resistance to hail according to DIN EN 13583	Class E	Class E	
Rigid substrate	≥ 25 m/s	-	
Soft substrate	≥ 40 m/s		
Peel resistance of the overlap according to DIN EN 12316-2	> 500 N/50mm	-	
Shear resistance of the overlap according to DIN EN 12317-2	Failure beyond the overlap	Failure beyond the overlap	
Water vapor diffusion resistance according to DIN EN 1931 Tensile characterisitcs according to DIN EN 12311-2	$\mu = 85,000$	$\mu = 85,000$	
Tensile strength	≥ 7 N/mm² (Method B)	≥ 7 N/mm² (Method B)	
Elongation at break	≥ 500 % (Method B)	≥ 500 % (Method B)	
Resistance to shock loads according to DIN EN 12691	,		
Method A	≥ 750 mm	≥ 750 mm	
Method B	≥ 1250 mm	≥ 1250 mm	
Resistance to static loading according to DIN EN 12730	> 00 los	> 00 lan	
Method A	≥ 20 kg	≥ 20 kg	
Method B	≥ 20 kg	≥ 20 kg	
Tear continuation resistance according to DIN EN 12310-2	≥ 200 N	≥ 200 N	
Root penetration resistance 4)	given	-	
Dimensional stability according to DIN EN 1107-2	≤ 0.2 %	≤ 0.2 %	
Folding at low temperatures	≤-50°C	-	
according to DIN EN 495-5	passed: Lovel 0		
Behavior under UV irradiation, elevated temperatures, and	passed: Level 0	-	
water according to DIN EN 1297 (1000 h)	naccad		
Ozone resistance according to DIN EN 1844	passed	- watertight	
Exposure to bitumen according to DIN EN 1548	passed	watertight	
Durabilty against heat storage	watertight	watertight	
according to DIN EN 1296, DIN EN 1928 (Method A)	> 600 N	> 600 N	
Tear resistance (nail shank) according to DIN EN 12310-1	≥ 600 N	≥ 600 N	

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

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