



# KÖSTER TPO 2.0 W

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

## Features

- 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
- high SRI value of 106 (Solar Reflectance Index)
- 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 wet rooms and tanks.

#### Application

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

Packaging RT 820 150 W	2.0 mm x 1.50 m x 20 m
Related products	
KÖSTER Contact Adhesive	Prod. code RT 102
KÖSTER Roof Drain Vertical DN 12	25 Prod. code RT 914 001
KÖSTER Roof Drain Angled DN 70	Prod. code RT 914 002
KÖSTER Universal Roof Drain Exte	ension Prod. code RT 914 003
for roof drain without TPO-seal	
KÖSTER System Roof Vent DN 10	0 Prod. code RT 915 004
KÖSTER Base for System Roof Ve	nt DN Prod. code RT 915 005
100	
KÖSTER System Roof Vent Extens	sion for Prod. code RT 915 006
Insulation	

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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Technical Data Sheet RT 820 W

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	KÖSTER BAUCHEMIE AG	
	Dieselstraße 1-	10, 26607 Aurich
	KÖSTER	TPO 2.0 W
	EN 13956 07	61-CPR-0422
0761	EN 13967 07	61-CPR-0423
		embrane with centrally embedded
15		ber mesh
	giass in	
Length according to DIN EN 1848-2	20 m <sup>1)</sup>	
Width according to DIN EN 1848-2	1.50 m <sup>2)</sup>	
Effective thickness according to DIN EN 1849-2	2.0 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.	
Designation according DIN OPEO 00000 and and DIN OPEO		
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	white CDI 100	white CDI 106
	white SRI 106	white SRI 106
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	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	passed (Method D)	waterlight (Method A)
-	$P (+1) \cdot P (+4)^{3}$	
Exposure to external fire according to DIN CEN/TS 1187; DIN	$B_{roof}(t1); B_{roof}(t4)^{3)}$	-
4102-7; DIN EN 13501-5		
Reaction to fire	Class E	Class E
Resistance to hail according to DIN EN 13583		
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	Failure beyond the overlap	Failure beyond the overlap
12317-2		
Water vapor diffusion resistance according to DIN EN 1931	u <u>- 85 000</u>	μ = 85.000
Tensile characterisitics according to DIN EN 12311-2	μ = 85,000	μ = 05,000
	$> 7 N/mm^2$ (Method D)	$> 7 N/mm^2 (Mathed D)$
Tensile strength	$\geq$ 7 N/mm <sup>2</sup> (Method B)	$\geq$ 7 N/mm <sup>2</sup> (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		
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 <sup>4)</sup>	given	
Dimensional stability according to DIN EN 1107-2	≤ 0.2 %	- ≤ 0.2 %
		- U.L /0
Folding at low temperatures	≤ - 50°C	-
according to DIN EN 495-5	pagaad: Lavel 0	
Behavior under UV irradiation, elevated temperatures, and	passed: Level 0	-
water according to DIN EN 1297 (1000 h)	a second	
Ozone resistance according to DIN EN 1844	passed	-
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)		
Tear resistance (nail shank) according to DIN EN 12310-1	≤ 600 N	≤ 600 N
1) Special lengths available on request 2) Special widths available	on request 3) Requirements are met for	roofs tested by KÖSTEB Eurther

1) Special lengths available on request 2) Special widths 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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