



KÖSTER TPO 1.5 SK (FR)

Technical Data Sheet RT 815 SK (FR)

Issued: 2018-12-12

Polyolefin based waterproofing membrane with central glass fleece insert, special self-adehered fleece laminated underside, and improved flame-resistant properties (FR)

Features

- with improved flame-resistant properties
- for direct adehsion to EPS insulation
- fulfills requirements for "hard roofs" and classified as Broof (t1)
- 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 °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 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.

Application

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

Dackaging

Раскаділд		
RT 815 052 SK FR	1.5 m	m x 0.525 m x 20 m
RT 815 105 SK FR	1.5 mm x 1.05 m x 20 m	
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 g	rey 90	Prod. code RT 901 001
degrees		
KÖSTER Internal Corner light grey 90		Prod. code RT 902 001
degrees		
KÖSTER TPO Metal Composite	Sheet	Prod. code RT 910 002
Grev		

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

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

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu

KÖSTER Roof Drain Vertical DN 125 KÖSTER Roof Drain Angled DN 70 KÖSTER Universal Roof Drain Extension Prod. code RT 914 003 for roof drain with TPO-seal

KÖSTER System Roof Vent DN 100 KÖSTER Base for System Roof Vent DN Prod. code RT 915 005 100

Prod. code RT 915 004

Prod. code RT 914 001 S

Prod. code RT 914 002 A



	KÖSTER BAUCHEMIE AG			
	Dieselstraße 1-10, 26607 Aurich			
	KÖSTER TPO 1.5 SK (FR)			
0701	EN 13956 0761-CPR-0422			
0761	EN 13967 0761-CPR-0423			
15	Polyolefin based waterproofing membrane with central glass fleece insert and fleece laminated underside			
Length according to DIN EN 1848-2	20 m ¹⁾			
<u> </u>	1.05; 0.525 m			
Effective thickness according to DIN EN 1849-2	1.5 mm			
	1.85 mm			
	DIN EN 13956: 2012	DIN EN 13967:2004		
	waterproofing of flat and sloped	Vapor Barrier Type A		
	roofs. Application by loose laying			
	with ballast, mechanical fastening,			
	full surface, or strip adhesion.			
Designation according DIN V 20000-201 and DIN V 20000-202		BA-FPO-BV-E-GV-1,5-SK		
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			
Mass per unit area according to DIN EN 1849-2	1780 g /m²	1780 g /m²		
Water tightness according to DIN EN 1928 (Method B)	10 kPa/24h watertight	400 kPa/72h watertight		
Exposure to liquid chemicals, including water according to	passed (Method B)	watertight (Method A)		
DIN EN 1847				
Exposure to external fire according to DIN CEN/TS 1187; DIN	Broof(t1) 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	≥ 43 m/s			
Peel resistance of the overlap according to	Type of failure: 100% C	-		
DIN EN 12316-2	\rightarrow No failure in the overlap			
Shear resistance of the overlap according to DIN EN	Failure beyond the overlap	Failure beyond the overlap		
12317-2				
Tensile characterisitcs according to DIN EN 12311-2	> 750 N/50 mm (Mathed A)	> 7E0 N/E0 mm (Mathed A)		
Tensile strength	\geq 750 N/50 mm (Method A)	\geq 750 N/50 mm (Method A)		
Elongation at break	≥ 30 % (Method A)	≥ 30 % (Method A)		
Resistance to shock loads according to DIN EN 12691 Method A	> 800 mm	> 800 mm		
Method B	≥ 800 mm ≥ 1750 mm	≥ 800 mm ≥ 1750 mm		
Resistance to static loading according to DIN EN 12730				
Method A	≥ 20 kg	≥ 20 kg		
Method B	$\geq 20 \text{ kg}$ $\geq 20 \text{ kg}$	≥ 20 kg ≥ 20 kg		
Tear continuation resistance according to DIN EN 12310-2	≥ 20 kg ≥ 250 N	≥ 250 N		
Root penetration resistance ⁴⁾	given			
Dimensional stability according to DIN EN 1107-2	≤ 0.2 %	≤ 0.2 %		
Folding at low temperatures	≤ - 50°C	/0		
according to DIN EN 495-5				
Behavior under UV irradiation, elevated temperatures, and	passed: Level 0	-		
water according to DIN EN 1297 (1000 h)				
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)		U U		
1) Special lengths available on request 2) Other colors available or	request 2) Pequirements are mot for re-	ofe tested by KÖSTEP in Cormony		

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

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu

2/2

R - Roofing membranes, roof waterproofing

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.