



KÖSTER TPO Pro 1.8

Technical Data Sheet RT 818 150 Pro

Prod. code BT 903 001

Prod. code RT 910 002

Prod. code RT 919 003

Prod. code RT 919 004

Issued: 2022-04-20

- Certificate of conformity of factory production control 0761-CPR-0422 MPA Braunschweig

TPO / FPO roofing and waterproofing membrane with centrally embedded glass fleece based on recycled polymers (near to prime)

light grey

grey

KÖSTER Round Corner Patch light grey

KÖSTER Wall connection profile 60 mm

KÖSTER Bar for membrane fastening

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

KÖSTER TPO Metal Composite Sheet

Features

- Uniform material quality (no difference between upper and lower side)
- a significant proportion of pure, recycled polyethylene
- seam bonding with hot air welding
- and weather resistant
- Aging and rot resistant
- High cold flexibility (≤ -50°C)
- UV-stable
- Compatible with bitumen
- Compatible with polystyrene
- Suitable for all types of insulation
- Resistant against normal mechanical stresses
- Resistant to microorganisms and rodent attack
- Free of softeners and chlorine
- Harmless to health, water, soil, animals and plants
- Environmentally friendly
- Recyclable

Technical Data

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Fields of Application

KÖSTER TPO Pro Roofing and Waterproofing Membranes are used to waterproof flat roofs in cases of direct exposure to weathering. The membranes can be mechanically fastened or installed with ballast.

Substrate

For KÖSTER TPO Pro roofing membranes which have been exposed to weathering for a certain period of time, it is essential to carry out welding tests before further welding. If the welding result is unsatisfactory, the membrane must be roughened in the welding area with suitable grinding equipment. Alternatively, the KÖSTER TPO Cleaner can be used to pre-treat the weld seam.

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.

Other

Due to the use of recycled raw materials, slight color differences may occur in different production batches. This has no impact on the quality and durability of the KÖSTER TPO Pro roofing membrane. We recommend paying attention to the batch number when laying and using it in individual construction phases.

Related products

KÖSTER Contact Adhesive	Prod. code RT 102
KÖSTER TPO Cleaner	Prod. code RT 105 002
KÖSTER External Corner light grey 90	Prod. code RT 901 001
degrees	
KÖSTER Internal Corner light grey 90	Prod. code RT 902 001
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 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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	KÖSTED BA	
	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich	
		10, 20007 Auticii
	KÖSTED.	TPO Pro 1.8
		761-CPR-0422
0701		
0761		761-CPR-0423
15		ofing membrane made of flexible
Length according to DIN EN 1848-2	20 m	ral glass fleece insert
Width according to DIN EN 1848-2	1,50 m	
Effective thickness according to DIN EN 1849-2	1,8 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 or mechanical	
	fastening	
	-	
Designation according DIN SPEC 20000-201 and DIN SPEC	DE/E1-FPO-BV-E-GV-1,8	BA-FPO-BV-E-GV-1,8
20000-202		
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	1780 g /m ²	1780 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		
Exposure to external fire according to DIN CEN/TS 1187; DIN	Broof(t1) ¹⁾	-
4102-7; DIN EN 13501-5		
Reaction to fire according to EN 13501-1	Class E	Class E
Resistance to hail according to DIN EN 13583		
Rigid substrate	≥ 25 m/s	-
Soft substrate	\geq 38 m/s	
Peel resistance of the overlap according to	≥ 400 N/50 mm	-
DIN EN 12316-2		
Shear resistance of the overlap according to DIN EN	Failure beyond the overlap	Failure beyond the overlap
12317-2		r andre beyond the overlap
Water vapor diffusion resistance according to DIN EN 1931	μ = 85.000	μ = 85.000
Tensile characterisitics according to DIN EN 12311-2	μ = 00.000	μ – 00.000
Tensile strength	≥ 5 N/mm² (Method B)	\geq 5 N/mm ² (Method B)
Elongation at break	\geq 350 % (Method B)	\geq 350 % (Method B)
Resistance to shock loads according to DIN EN 12691		
Method A	≥ 400 mm	≥ 400 mm
Method B	≥ 400 mm ≥ 1000 mm	≥ 400 mm ≥ 1000 mm
Resistance to static loading according to DIN EN 12730		
Method A		> 20 kg
Method B	≥ 20 kg	≥ 20 kg
	≥ 20 kg	≥ 20 kg
Tear continuation resistance according to DIN EN 12310-2	≥ 175 N	≥ 175 N
Dimensional stability according to DIN EN 1107-2	≤ 0,2 %	≤ 0,2 %
Folding at low temperatures	≤ - 50°C	-
according to DIN EN 495-5	and the second sec	
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: Cracking level 0	-
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 1) Requirements are met for roof structures tested by KÖSTER in the structure of the	≥ 400 N	≥ 400 N

1) Requirements are met for roof structures tested by KÖSTER in Germany. Information on this is available from KÖSTER.

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