



KÖSTER TPO 2.0 F W

Technical Data Sheet RT 820 F W

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 1200/372/15 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, Report SRI P15-104/2 Fraunhofer IBP

White TPO Roofing and Waterproofing membrane with central glass fleece insert and an additional polyester fleece backing with high SRI value (106)

Features

- Plastic waterproofing membrane made of high quality thermoplastic polyolefins based on polyethylene (PE)
- high SRI value of 106 (Solar Reflectance Index)
- central glass fleece insert
- Polyester fleece backside
- 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 ($\leq -50^{\circ}\text{C}$)
- 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
- high SRI value of 106 (Solar Reflectance Index)

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.

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 820 105 F W	2.0 mm x 1.05 m x 20 m
RT 820 150 F W	2.0 mm x 1.50 m x 20 m

Related products

KÖSTER PUR Membrane Adhesive	Prod. code RT 101
KÖSTER TPO 2.0 W	Prod. code RT 820 W

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

 0761 15	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich KÖSTER TPO 2.0 F W EN 13956 0761-CPR-0422 Polyolefin (PE) based waterproofing membrane with centrally embedded glass fiber mesh and fleece laminated underside
Length according to DIN EN 1848-2	20 m ¹⁾
Width according to DIN EN 1848-2	1.50
Effective thickness according to DIN EN 1849-2	2.0 mm
Total thickness DIN EN 1849-2	2.8 mm
Designation according DIN SPEC 20000-201 Color Visible Defects according to DIN EN 1850-2 Straightness according to DIN EN 1848-2 Flatness according to DIN EN 1848-2 Mass per unit area according to DIN EN 1849-2 Water tightness according to DIN EN 1928 (Method B) Exposure to liquid chemicals, including water according to DIN EN 1847 Exposure to external fire according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5 Reaction to fire Resistance to hail according to DIN EN 13583 Rigid substrate Soft substrate Peel resistance of the overlap according to DIN EN 12316-2 Shear resistance of the overlap according to DIN EN 12317-2 Water vapor diffusion resistance according to DIN EN 1931 Tensile characterisitcs according to DIN EN 12311-2 Tensile strength Elongation at break Resistance to shock loads according to DIN EN 12691 Method A Method B Resistance to static loading according to DIN EN 12730 Method A Method B Tear continuation resistance according to DIN EN 12310-2 Root penetration resistance ⁴⁾ Dimensional stability according to DIN EN 1107-2 Folding at low temperatures according to DIN EN 495-5 Behavior under UV irradiation, elevated temperatures, and water according to DIN EN 1297 (1000 h) Ozone resistance according to DIN EN 1844 Exposure to bitumen according to DIN EN 1548 Durability against heat storage according to DIN EN 1296, DIN EN 1928 (Method A) Tear resistance (nail shank) according to DIN EN 12310-1	DIN EN 13956: 2012 waterproofing of flat and sloped roofs. Application by loose laying with ballast, mechanical fastening, full surface or strip adhesion DE/E1-FPO-BV-E-GV-2,0 white (SRI 106) free from visible defects ≤ 50 mm ≤ 10 mm 2215 g/m^2 400 kPa/72h watertight passed (Method B) $B_{\text{root}}(t1); B_{\text{root}}(t4)^{2)}$ Class E $\geq 25 \text{ m/s}$ $\geq 43 \text{ m/s}$ $> 500 \text{ N/50mm}$ Failure beyond the overlap $\mu = 85,000$ $\geq 1000 \text{ N/50 mm}$ (Method A) $\geq 50 \%$ (Method A) $\geq 700 \text{ mm}$ $\geq 1500 \text{ mm}$ $\geq 20 \text{ kg}$ $\geq 20 \text{ kg}$ $\geq 350 \text{ N}$ given $\leq 0.2 \%$ $\leq -50^\circ\text{C}$ passed: Level 0 passed passed watertight $\geq 500 \text{ N}$

1) Special lengths available on request 2) Requirements are met for roofs tested by KÖSTER. Further information can be requested from KÖSTER.

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