KÖSTER ECB 2.0 U S

Technical Data Sheet RE 820 U S

Issued: 2019-04-10

Test Report 1200/676/17 EN 13967 MPA Braunschweig

Homogenous Ethylene Copolymer Bitumen based waterproofing membrane (ECB) for basement and underground structures

Features

The KOSTER ECB 2.0 U S is an homogenous waterproofing membrane based on ethylene copolymer bitumen (ECB) compound, with a top silver signal layer for damage visual control during the application procedures

- Color: black, upper side silver
- homogeneous seam bonding with hot air welding
- immediate waterproofing effect
- temperature resistant
- aging and rot resistant
- high cold flexibility (≤ -50 °C)
- root resistant
- compatible with bitumen
- compatible with polystyrene
- No substrate preparation needed
- suitable for all types of insulation
- resistant against normal mechanical stresses
- resistant to microorganisms
- environmentally friendly
- free of softeners and chlorine
- do not become brittle over time
- safe for health, water, soil, and plants
- recyclable

Technical Data

Refer to last page.

Fields of Application

KÖSTER ECB 2.0 U S is a homogenous waterproofing membrane for use in structural waterproofing such as underground structures, tunnels, retaining walls, concrete rafts and slabs or similar others.

The main fields of application are:

- Underground structures
- Rafts or mat foundations
- Retaining walls (positive side)
- Underground car parks
- Contiguous piling & diaphragm walls
- Embankments

Application

Please refer to the TPO/ECB Installation Instructions and the Technical Manual for TPO/ECB of KÖSTER BAUCHEMIE AG for correct application of KÖSTER Waterproofing Membranes.

Packaging

RE 820 210 U S	2.0 mm x 2.10 m x 20 m

Safety

Adhere to all governmental, state, and local safety regulations when installing the membranes.

Related products

KÖSTER Contact Adhesive	Prod. code RT 102
KÖSTER External Corner black 90 degrees	Prod. code RT 901 001 B
KÖSTER Internal Corner black 90 degrees	Prod. code RT 902 001 B
KÖSTER TPO Metal Composite Sheet	Prod. code RT 910 002 B

R - Roofing membranes, roof waterproofing

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CE 0761 15	**KÖSTER BAUCHEMIE AG** **Dieselstraße 1-10, 26607 Aurich** **KÖSTER ECB 2.0 U S** **EN 13967 0761-CPR-0423** **Waterproofing membrane made from Ethylene Copolymer Bitumen**
Length according to DIN EN 1848-2	20 m [1)]
Width according to DIN EN 1848-2	2.10 m [2)]
Effective thickness according to DIN EN 1849-2	2.0 mm
	DIN EN 13967:2012 **Moisture barrier Type T**
Designation according to SPEC 20000-202	BA-ECB-BV-2.0
Color	black with silver foil
Visible flaws according to DIN EN 1850-2	free of visible flaws
Straightness according to DIN EN 1848-2	≤ 50 mm
Area weight according to DIN EN 1849-2	2000 g /m²
Watertightness according to DIN EN 1928 Method A	≥ 60 kPa/24h tight
Watertightness according to DIN EN 1928 Method B	≥ 400 kPa/72h tight
Exposure to liquid chemicals including water according to DIN EN 1847	tight
Reaction to fire according to EN 13501-1	Class E
Shear resistance of the joining seam according to DIN EN 12317-2	> 500 N/50 mm Failure outside the overlapped joint
Water vapor permeability according to DIN EN 1931	μ = 100,000
Tensile elongation according to DIN EN 12311-2	
Tensile strength longitudinal / transverse	≥ 9 N/mm² (Method B)
Elongation at break / cross	≥ 700 % (Method B)
Resistance to impact according to DIN EN 12691	
Method A	≥ 600 mm
Method B	≥ 1750 mm
Resistance to static load according to DIN EN 12730	
Method A	≥ 20 kg
Method B	≥ 20 kg
Behavior to folding at low temperatures according to DIN EN 495-5	≤ -50 °C
Behavior to exposure to bitumen according to DIN EN 1548	tight
Durability against warm storage according to DIN EN 1296, DIN EN 1928 (Verf. A)	tight
Tear resistance (nail shaft) according to DIN EN 12310-1	≥ 450 N

1) Special lengths on request 2) Special widths on request

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