



## KÖSTER ECB 2.0 2F

Technical Data Sheet RE 820 105 2F

Issued: 2022-12-15

### ECB waterproofing membrane with a central glass fleece insert and polyester fleece lamination on both sides

#### Features

- one material quality (no differences in top and bottom)
- Can be welded homogeneously with hot air
- temperature and weather resistant
- non-aging and rot-proof
- high flexibility at low temperatures ( $\leq -50$  ° C)
- UV stable
- resistant to root penetration
- compatible with bitumen
- polystyrene compatible
- Insulation neutral
- insensitive to normal mechanical loads
- resistant to microorganisms
- environmentally friendly
- plasticizer-free
- chlorine free
- harmless to health, water, soil, animals, and plants
- recyclable

#### Technical Data

See last page

#### Fields of Application

For waterproofing bridge decks in accordance with ZTV-ING (Part 7).

#### Substrate

The substrate is to be prepared with KÖSTER CT 225 Bridge Deck Coating according to the Technical Data Sheet.

#### Application

The KÖSTER ECB 2.0 2F waterproofing membranes are processed in accordance with the installation instructions and the technical manual from KÖSTER BAUCHEMIE AG. The rolls are laid out and cut to length. Allow the rolls to relax to a flat form. The hot-applied, highly elastic rubber-bitumen sealing compound KÖSTER CFR 1 is poured onto the area prepared with KÖSTER CT 225 Bridge Deck Coating, and the KÖSTER ECB 2.0 2F is rolled into the fresh hot bitumen. Avoid entraining any air into the surface below the membrane by keeping the working edge supplied with KÖSTER CFR 1. Overlap the membranes by 10 cm.

After the membrane has cooled the hot rolled asphalt can be applied. The asphalt should be installed with a fine aggregate asphalt layer base to not immediately stress the waterproofing with large aggregates.

#### Cleaning

Fresh material can be cleaned with aromatic hydrocarbon type cleaners. Hardened material can be mechanically removed.

#### Storage

Store the rolls vertically in a clean area out of direct sunlight.

#### Safety

Wear appropriate Protective Personal Equipment (PPE) when installing

the material. Observe all governmental, state, and local safety regulations when processing the material.

#### Related products

KÖSTER ECB 2.0	Prod. code RE 820
KÖSTER ECB 2.0 U	Prod. code RE 820 052 U
KÖSTER PUR Membrane Adhesive	Prod. code RT 101
KÖSTER 2C PUR Membrane Adhesive	Prod. code RT 104 001
KÖSTER External Corner black 90 degrees	Prod. code RT 901 001 B
KÖSTER Internal Corner black 90 degrees	Prod. code RT 902 001 B

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 application 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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### KÖSTER ECB 2.0 2F

**Plastic membrane made of ethylene copolymer bitumen with a central glass fleece insert and polyester fleece lamination on both sides**

Product description:	KÖSTER ECB 2.0 2F
Reinforcement	Centrally embedded glass fiber mesh
Lamination	fleece laminated on both sides
Visible defects	Free of visible defects
Length according to DIN EN 1848-2	10 m
Width according to DIN EN 1848-2	1050 mm
Straightness according to DIN EN 1848-2	≤ 50 mm
Area related weight according to DIN EN 1849-2	2500 g /m <sup>2</sup>
Nominal thickness	2.0 mm
Water tightness according to DIN EN 1928 (method B)	watertight
Peel strength of the overlap seam according to DIN EN 12316-2	> 500 N/50 mm
Weld seam shear resistance according to DIN EN 12317-2	> 600N/50 mm Failure outside of the seam
Elongation at break according to DIN EN 12311-2 (method A)	≥ 1500 N/50 mm
Elongation at break according to DIN EN 12311-2 (method A)	≥ 60 %
Resistance to shock loads according to DIN EN 12691	
- Substrate Al Plate (method A)	≥ 1500 mm
- Substrate EPS (Method B)	≥ 2000 mm
Resistance to static loading according to DIN EN 12730	
- Substrate EPS (Method A)	≥ 20 kg (tight)
- Substrate Concrete (Method B)	≥ 20 kg (tight)
Tear continuation resistance according to DIN EN 12310-2	≥ 500 N
Tear continuation resistance (Nail shaft) according to DIN EN 12310-1	≥ 800 N

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