

PROOFMATE EK

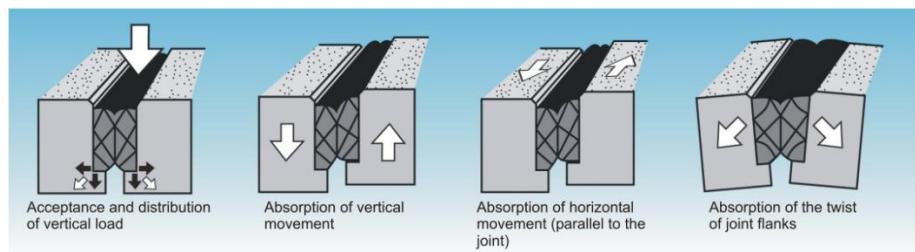
Properties:

PROOFMATE EK box profiles are compression seals of various sizes based on EPDM (ethylene propylene diene copolymer).

PROOFMATE EK is used for the sealing of expansion and construction joints and as a joint completion profile.

Due to its top-quality material basis *PROOFMATE EK* profiles are chemically resistant to de-icing salt, fuels, lubricants, UV radiation and ozone.

The pre-stressed *PROOFMATE EK* profile, that is bonded with *FIX-O-FLEX*, absorbs cross, longitudinal and vertical movements of a building construction. The special inner ribbing facilitates permanent shape stability of the profile in any position.



Technical data:

Substance data:

| | | |
|---------------------|----------------|----------------|
| Colour | black | |
| Material basis | EPDM | |
| Shore A hardness | 70 ± 5 | DIN ISO 7619-1 |
| Tensile strength | approx. 13 MPa | DIN EN ISO 527 |
| Elongation at break | approx. 290 % | DIN EN ISO 527 |

Ageing 7d / -10°C rel. change:

| | | |
|------------------|-----|-----------|
| Shore A hardness | + 7 | DIN 53508 |
|------------------|-----|-----------|

Ageing 7d / 100°C rel. change:

| | | |
|---------------------|-----|-----------|
| Shore A hardness | + 2 | DIN 53508 |
| Tensile strength | 0 % | |
| Elongation at break | 0 % | |

Compression set:

| | | |
|---------------|--------------|-------------|
| 22 h at 100°C | approx. 10 % | DIN ISO 815 |
| 22 h at -25°C | approx. 45 % | |

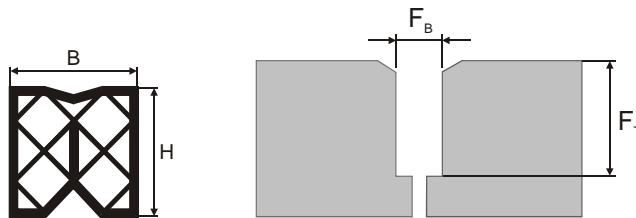
Technical data were determined on sheets.

Processing:

PROOFMATE EK compression profiles can be installed directly into the properly prepared joint if there is no mechanical stress on the joint edges.

The joints are milled in parallel to the depth that is required for the chosen profile size, if the joints have not already been prepared in the formwork of a new building. There must be no cracks, breaks, or severe unevenness.

The size of the *PROOFMATE EK* compression profile should be chosen according to the dimensions (width, depth) of the joint to be sealed.



B = profile width, H = profile height

F_B = minimum joint width required for installing the profile

F_T = minimum joint depth required for correct functioning

| Proofmate EK type | B [mm] | H [mm] | F_B [mm] | F_T [mm] |
|---------------------|--------|--------|------------|------------|
| Proofmate EK 15-25 | 34 | 34 | 20 | 45 |
| Proofmate EK 20-40 | 46 | 37 | 30 | 45 |
| Proofmate EK 27-49 | 56 | 55 | 35 | 65 |
| Proofmate EK 30-60 | 68 | 70 | 45 | 90 |
| Proofmate EK 35-70 | 80 | 87 | 55 | 95 |
| Proofmate EK 50-95 | 107 | 90 | 65 | 105 |
| Proofmate EK 55-120 | 135 | 95 | 80 | 105 |

The type number indicates the minimum and maximum joint space for which the profile is designed. Please refer to installation dimension as described in the table above to choose the right profile.

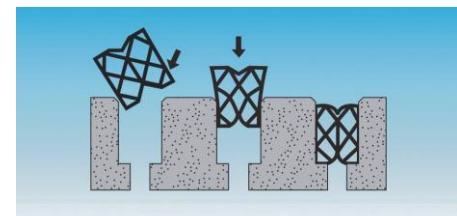
PROOFMATE EK is installed by pressing the profile into the joint whose flanks have already been prepared with an adhesive compound layer *PROOFMATE F* or *FIX-O-FLEX* of approx. 1-2 mm (consumption see tab.). The paste-like consistency of the adhesive results in a sliding effect that facilitates the profile installation.

Consumption of adhesive for application of *PROOFMATE EK* profiles:

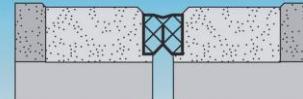
| Profile type | Consumption adhesive [g/m] |
|--------------|----------------------------|
| EK 15-25 | 105 |
| EK 20-40 | 112 |
| EK 27-49 | 165 |
| EK 30-60 | 210 |
| EK 35-70 | 260 |
| EK 50-95 | 270 |
| EK 55-120 | 285 |

Consumption data are average values and may vary slightly depending on joint width.

Please take care that the compression seal is not stretched or excessively compressed lengthwise to the joint. Under no circumstances may it be twisted.



A robust edge protection is required if there is any mechanical stress on the joint edges, e.g. in traffic areas. PC mortar, e.g. *HYDROPOX* mortar, can be used to achieve such an adequate edge protection.



Safety information: No special measures required

Packaging: Rolls or bundles in carton or on pallets (depending on profile type)

Storage: Shelf life at least 24 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal: Recommendation:

Small quantities of product residues can be disposed of as normal domestic waste. Dispose of bigger quantities must be effected in accordance with the corresponding local regulations.

Test certificates: Functional testing of *PROOFMATE EK* compression profile for sealing of expansion joints; MFPA Leipzig 2007

Verification of sound insulation of joint filler - *PROOFMATE EK* compression profile; ift Rosenheim 2010

Determination of chemical resistance to jet fuel and de-icing agents; TPH Bausysteme GmbH 2010

PROOFMATE EK - Verification of fire behaviour according to DIN 4102-1; Prüfinstitut Hoch Fladungen 2012

FIX-O-FLEX and *PROOFMATE EK* - Verification of fire behaviour according to DIN 4102-1; Prüfinstitut Hoch Fladungen 2012

**Legal notice:**

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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