

PROOFMATE EK

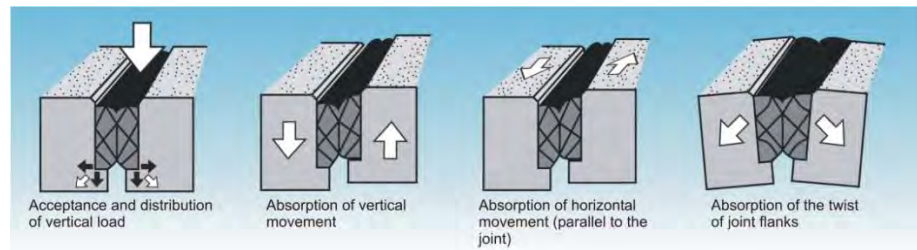
Properties:

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
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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 %	

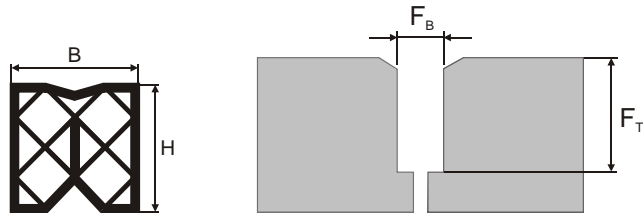
Technical data were determined on sheets.

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 selection of the appropriate impact profile depends on the joint dimensions and the expected joint movements, which cause the joint dimensions to change temporarily. A profile inserted at minimum pave width can still be compressed by joint movements up to the min. joint opening. If movements cause the joint to widen, this is possible for the functionality of the respective profile up to the max. joint opening.



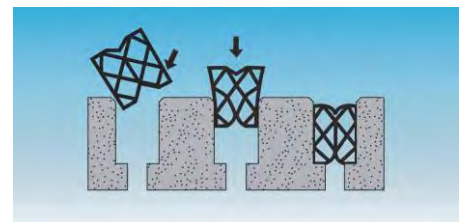
B = profile width, H = profile height
 F_B = minimum joint width required for installing the profile
 F_T = minimum joint depth required for correct functioning

EK-Profile	Profile dimensions			Permissible elongation [mm]	Installation dimensions [mm]			Joint opening [mm]		Profile weight [kg/lfm]	Consumption Adhesive [g/lfm]
	Wide [mm]	Height [mm]	Length [m]		Joint width min. F_B	Joint width max.	Joint depth min. F_T	min.	max.		
15-25	36	35	30	12	24	30	45	18	30	0,5	105
20-40	46	37	30	20	30	40	50	20	40	0,8	112
27-49	56	55	30	22	38	49	65	27	49	1,4	165
30-60	68	70	20	30	45	60	85	30	60	2,4	210
35-70	80	87	20	35	55	70	100	35	70	3,7	260
50-95	107	90	10	45	72	95	110	50	95	4,7	270
55-120	135	100	12	65	90	120	130	55	120	5,7	285

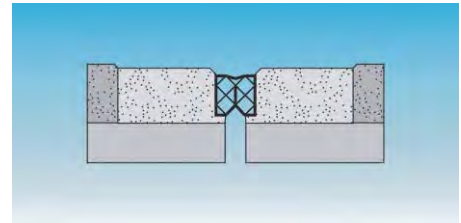
The consumption data for the adhesive are average values and may vary slightly depending on the joint size and substrate condition.

PROOFMATE EK is installed by compressing and then pressing the profile into the joint, on the flanks of which an approx. 1-2 mm thick layer of *PROOFMATE F* or *FIX-O-FLEX* adhesive (see table for consumption values) has been applied. The pasty consistency of the adhesive creates a sliding effect, which facilitates the insertion of the profile. The substrate preparation required for adhesive application must be carried out according to the specifications in the technical data sheet of the selected adhesive.

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.

TPH Bausysteme GmbH
Nordportbogen 8
D-22848 Norderstedt

Tel.: +49 (0)40 / 52 90 66 78-0
Fax: +49 (0)40 / 52 90 66 78-78
e-mail info@tph-bausysteme.com
Web www.tph-bausysteme.com