

## PRODUCT DATA SHEET

# Sika® Compression Seals Elastomer Type EK

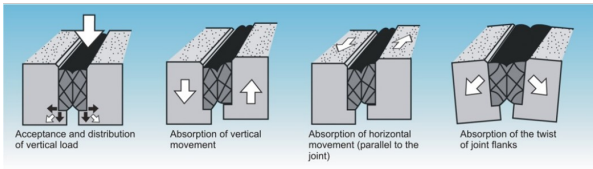
EPDM-based compression profiles for joint sealing

### DESCRIPTION

Sika® Compression Seals Elastomer Type EK are box-shaped compression seals of various sizes based on synthetic rubber EPDM.

The pre-stressed Sika® Compression Seals Elastomer Type EK, that are bonded with Sikadur®-82 WB, absorbs cross, longitudinal and vertical movements of a building construction.

The special inner ribbing facilitates permanent shape stability of the profile in any position.



### USES

Sika Waterbar® Seal EPDM Type EK are used for the sealing of movement joints and as joint completion profiles.

### FEATURES

- High permanent flexibility and good resilience
- Chemically resistant to de-icing salt, fuels, lubricants and a broad spectrum of chemical agents (testing necessary for any specific situations)
- UV stable and ozone resistant
- High tensile strength and elongation
- Suitable for water pressure and limited stress
- Resistant to all natural mediums aggressive to concrete

### CERTIFICATES AND TEST REPORTS

- Functional testing of Sika® Compression Seals Elastomer Type EK compression profile for sealing of expansion joints; MFPA Leipzig 2007
- Verification of sound insulation of joint filler - Sika® Compression Seals Elastomer Type EK compression profile; ift Rosenheim 2010
- Determination of chemical resistance to jet fuel and de-icing agents; TPH Bausysteme GmbH 2010
- Sika® Compression Seals Elastomer Type EK - Verification of fire behaviour according to DIN 4102-1; Prüfinstitut Hoch Fladungen 2012
- Sikadur®-82 WB and Sika® Compression Seals Elastomer Type EK - Verification of fire behaviour according to DIN 4102-1; Prüfinstitut Hoch Fladungen 2012

### PRODUCT INFORMATION

<b>Composition</b>	Ethylene propylene diene monomer rubber (EPDM)
<b>Packaging</b>	Rolls or bundles in carton or on pallets (depending on type of Sika® Compression Seals Elastomer Type EK)
<b>Colour</b>	Black
<b>Shelf life</b>	At least 24 months when stored in the original packaging and under the specified storage conditions. After the expiration the use of the product is

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

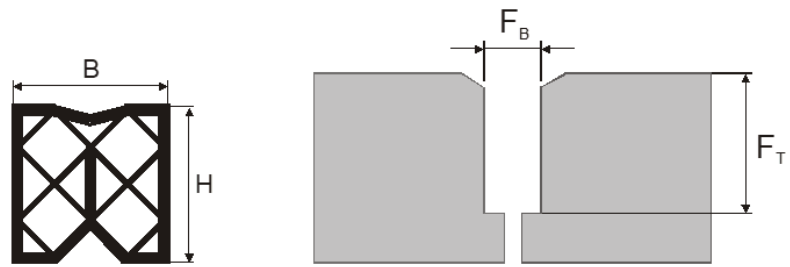
#### Storage conditions

- To be stored as supplied on a flat base or on a palette.
- For long term storage  $\geq 6$  months in enclosed areas: The storage area should be covered, cool, dry, free from dust and moderately ventilated. The waterbars must be protected from heat sources and strong artificial lights with a high UV content.
- Short term storage  $> 6$  weeks and  $< 6$  months in enclosed areas on construction sites, outdoors: As for long term storage i.e. in dry storage protected by suitable covers from direct sunlight, snow and ice or any other form of contamination, store separate from other potentially harmful materials, plant and equipment such as structural steel, reinforcement or fuels etc., store away from traffic and site roads in a dry area.
- Short term storage  $\leq 6$  weeks on construction sites, outdoors: protected from contamination or damage, protected by suitable covers from strong sunlight and snow or ice.

Shore A hardness	$70 \pm 5$	DIN ISO 7619-1
Tensile strength	$\approx 13$ MPa	DIN EN ISO 527
Elongation at break	$\approx 290$ %	DIN EN ISO 527

## SYSTEM INFORMATION

#### System structure



B = profile width

H = profile height

FB = minimum joint width required for installing the profile

FT = minimum joint depth required for correct functioning

#### Profile dimensions

EK types	Width B (mm)	Height H (mm)
15-25	36	35
20-40	46	37
27-49	56	55
30-60	68	70
35-70	80	87

#### Installation dimensions

EK types	Joint width min. $F_B$ (mm)	Joint width max. (mm)	Joint depth min. $F_T$ (mm)
15-25	24	30	45
20-40	30	40	50
27-49	38	49	65
30-60	45	60	85
35-70	55	70	100

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## Joint opening and consumption adhesive

EK Types	Joint opening min. (mm)	Joint opening max. (mm)	Consumption adhesive (g/m)
15-25	18	30	105
20-40	20	40	112
27-49	27	49	165
30-60	30	60	210
35-70	35	70	260

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

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The joint flanks must be smooth and free from spalling and chipping as well as cracks and ridges.

### SUBSTRATE PREPARATION

The joints are milled in parallel to the depth that is required for the chosen type of Sika® Compression Seals Elastomer Type EK and its size, if the joints have not already been prepared in the formwork of a new building.

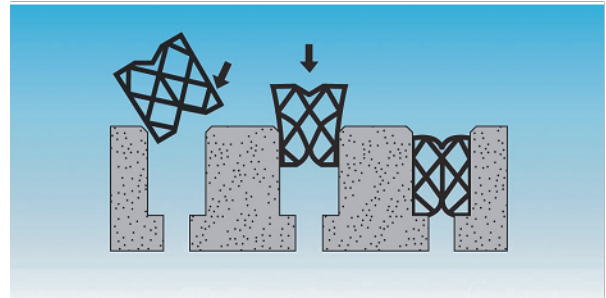
Any chipping in the joint edges must be repaired using suitable repair mortars, burrs must be levelled, joint widths that vary at short intervals must be levelled.

The substrate preparation required for adhesive application must be carried out according to the specifications in the technical data sheet of Sikadur®-82 WB adhesive.

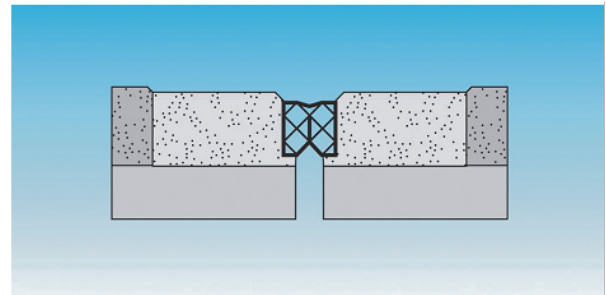
### APPLICATION

Sika® Compression Seals Elastomer Type EK can be installed directly into the properly prepared joint if there is no mechanical stress on the joint edges.

Sika® Compression Seals Elastomer Type 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 Sikadur®-82 WB adhesive has been applied.



The pasty consistency of the adhesive creates a sliding effect, which facilitates the insertion of the profile.



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## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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