

PRODUCT DATA SHEET

Sika® Compression Seals Elastomer Type E

EPDM-based joint seals

DESCRIPTION

Sika® Compression Seals Elastomer Type E are round shaped, flexible and compressible joint profiles according to DIN 3764-1 available in various diameters based on closed-cell EPDM foam.

The foamed quality meets the material requirements for pipe joint seals used in water- and drainage applications according to EN 681, Part 3 (cellular materials of vulcanized rubber).

USES

Sika® Compression Seals Elastomer Type E are used as joint sealing gaskets and for renovation of expansion joints in combination with SikaInject®-304 DE and SikaInject®-315 PS.

FEATURES

- High permanent flexibility and good resilience
- Easy to install
- UV stable
- Ozone resistant
- Suitable for water pressure and limited stress
- Resistant to all natural mediums aggressive to concrete
- Resistant to a broad spectrum of chemical agents (testing necessary for any specific situations)

CERTIFICATES AND TEST REPORTS

Verification of sound insulation of joint filler - Sika® Compression Seals Elastomer Type E compression profile; ift Rosenheim 2010

Sika® Compression Seals Elastomer Type E 30/40 - Tightness test of a compression profile with round diameter based on EPDM foam; MFPA Leipzig 2011

Determination of compressive stress (recovery) at different compressions and compression modulus of a joint sealing profile; MPA NRW Dortmund 2013

PRODUCT INFORMATION

Composition	Ethylene propylene diene monomer rubber (EPDM)	
Packaging	Rolls or bundles in carton or on pallets (depending on profile type)	
	Type	Packaging Unit
	E 20/40	45 m
	E 30/40	45 m
	E 40/40	45 m
	E 45/40	45 m
Colour	Black	

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Shelf life

Shelf life at least 24 month in original packaging when stored according to recommended storing conditions.

After the expiration the use of the product is 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 ≥ 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 ≤ 6 weeks on construction sites, outdoors: protected from contamination or damage, protected by suitable covers from strong sunlight and snow or ice.

Dimensions

Type	Diametre
E 20/40	20 mm
E 30/40	30 mm
E 40/40	40 mm
E 45/40	45 mm

Weight

Type	kg/m
E 20/40	0,295
E 30/40	0,530
E 40/40	0,900
E 45/40	1,060

Shore A hardness	35 $\pm$ 5	DIN ISO 7619-1
Tensile strength	≥ 3.0 N/mm ²	DIN EN ISO 527
Elongation at break	≥ 350 %	DIN EN ISO 527

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.

SPECIFICATION INFORMATION

When selecting the profile diameter the changes in joint width to be expected due to component movements and the water pressure acting on the joints must be taken into account.

The joint deformations are limited to a dimension of $\pm 10\%$ in relation to the initial joint width

Accordingly, the profile diameters must be at least 1/3 larger than the dimension of the initial joint

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

APPLICATION INSTRUCTIONS

EQUIPMENT

Hammer and wooden or plastic wedges or pneumatic chisel hammer.

SUBSTRATE PREPARATION

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.

APPLICATION METHOD / TOOLS

Sika® Compression Seals Elastomer Type E are driven into the joint by means of a hammer and wooden or plastic wedges or mechanically by a pneumatic chisel hammer.

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BUILDING TRUST



APPLICATION

Due to their pore structure, the profiles can be easily laid in the radius in corner areas. Bending radii according to manufacturer's recommendation.

A miter cut should not be made because the pore structure of the foamed elastomer makes it difficult to bond the interface. This could lead to a weakening of the sealing system.

Sika® Compression Seals Elastomer Type E can also be reinforced by bonding it with Sikadur® -82 WB or Sikaflex®-11 FC Purform®. In this case bonding is possible without problems due to the smooth external surface of the profiles.

In order to achieve good adhesion of Sikadur® -82 WB or Sikaflex®-11 FC Purform® adhesives to the elastomer surface, we recommend cleaning it with Sika® Aktivator-100 before bonding.

Absorbent and matt damp joint flanks must be pre-treated with Sika® Primer-3 N.

For more information about how to use Sika® Compression Seals Elastomer Type E in combination with SikalInject®-304 DE and SikalInject®-315 PS for the renovation of expansion joints, we refer to the respective relevant Technical Data Sheet.

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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