

**Product Data Sheet**  
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02 05 01 01 028 0 000000  
Sikaflex®-Construction (J)

## Sikaflex®-Construction (J)

### Joint sealing compound

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<b>Product Description</b>	Sikaflex®-Construction is permanently elastic one component joint sealing compound on polyurethane based.
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<b>Uses</b>	For movement joints in <ul style="list-style-type: none"><li>■ Facades, roofs and floors</li><li>■ Balcony parapets</li><li>■ Bridge cantilevers</li><li>■ Retaining walls</li><li>■ Subways</li></ul> For caulking of <ul style="list-style-type: none"><li>■ Window sashes and doors</li><li>■ Skirting</li><li>■ Wall/floor joints</li><li>■ Shutter housings</li><li>■ General purpose</li></ul>
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<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ One component, ready for use</li><li>■ Good adhesion to many substrates</li><li>■ Good weathering - and aging properties</li><li>■ Excellent workability, easy to use</li><li>■ Can be over painted</li></ul>
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#### Tests

<b>Approval / Standard</b>	Confirms to : DIN 18540, DIN 52 455, DIN 53 505, DIN 53 455, DIN 52 458
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#### Product Data

##### Form

<b>Colours</b>	Concrete grey
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<b>Packaging</b>	310 ml sausage (24 sausages per box)
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##### Storage

<b>Storage Conditions / Shelf Life</b>	12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.
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Construction



## Technical Data

<b>Chemical Base</b>	1-part polyurethane
<b>Density</b>	
<b>Skinning Time</b>	~ 4-6 hours (+23°C / 50% r.h.)
<b>Curing Rate</b>	~ 2 mm/24 hours (+23°C / 50% r.h.)
<b>Movement Capability</b>	20% of joint width
<b>Joint Dimensions</b>	
<b>Sag-Flow</b>	
<b>Service Temperature</b>	Dry : -30°C to +70°C, Wet : temporary upto 50°C

## Mechanical / Physical Properties

<b>Tear Strength</b>		
<b>Tensile Strength</b>	At 60% Elongation +23°C, <0.4 N/mm <sup>2</sup> At 60% Elongation -10°C, <0.6 N/mm <sup>2</sup>	(According to DIN 52455)
<b>Shore A Hardness</b>	~ 30 after 28 days (+23°C / 50% r.h.)	(According to DIN 53505)
<b>E-Modulus</b>		
<b>Elongation at Break</b>	~ 400%	(According to DIN 53455)
<b>Elastic Recovery</b>	> 80%	(According to DIN 52458)

## System Information

### Application Details

#### Consumption / Joint Design

The joint width must be designed to suit the movement capability of the sealant. In general the joint width must be > 10 mm and < 35 mm. A width to depth ratio of ~ 2 : 1 must be maintained.

#### Standard design dimensions for concrete elements as per DIN 18 540 /table 3:

Joint distance	2 m	2 - 3.5 m	3.5 - 5 m	5 - 6.5 m	6.5 - 8 m
Design joint width					
Min. joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	10 mm	12 mm	15 mm	15 mm

Minimum joint width for perimeter joints around windows: 10 mm

All joints must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width are the technical values of the joint sealant and the adjacent building materials, plus the exposure of the building, its method of construction and its dimensions.

#### Approximate consumption

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	8 mm	10 mm	12 mm	15 mm
Joint length / ml					

#### Substrate Quality

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.

<b>Substrate Preparation / Priming</b>	<p>Clean joint with compressed air.</p> <p><i>Backup materials:</i></p> <p>Soft, round or flat polyethylene profiles.</p> <p><i>Primer:</i></p> <p>For the selection of the suitable primer, please consult Sika Primer table or our Technical Department.</p>
<b>Application Conditions / Limitations</b>	
<b>Substrate Temperature</b>	+5°C min. / +40°C max.
<b>Ambient Temperature</b>	
<b>Substrate Moisture Content</b>	Dry
<b>Application Instructions</b>	
<b>Application Method / Tools</b>	<p>Sikaflex® Construction is supplied ready to use.</p> <p>After suitable joint and substrate preparation, insert Backing Rod to required depth and apply primer if necessary. Insert cartridge into sealant gun and firmly extrude Sikaflex® Construction into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. Sikaflex® Construction must be tooled firmly against joint sides to ensure good adhesion.</p> <p>Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft. Slick joint with smoothing liquid for a perfect sealant surface.</p>
<b>Cleaning of Tools</b>	
<b>Notes on Application / Limitations</b>	<p>Elastic sealants may not be over painted.</p> <p>Colour deviations may occur due to exposure to chemicals, high temperatures, UV-radiation (especially with colour shade white). However a change in colour will not adversely influence the technical performance or the durability of the product.</p> <p>Before using on natural stone contact our Technical Service.</p> <p>Do not use Sikaflex® Construction as a glass sealer, on bituminous substrates, natural rubber, EPDM rubber or on building materials which might bleed oils, plasticisers or solvents which could attack the sealant.</p> <p>Do not use Sikaflex® Construction to seal swimming pools.</p> <p>Not suitable for joints with water pressure or permanent water immersion.</p> <p>Only use in good ventilated areas</p> <p>The freshly applied sealant has a smell similar to 'Amaretto' until it has fully cured (benzaldehyde).</p> <p><b>Do not mix with or expose uncured Sikaflex®-Construction to substances that may react with isocyanates, especially alcohols which are often components within e.g. thinners, solvents, cleaning agents and formwork releasing compounds. Such contact could interfere or prevent the cross linking curing reaction of the material.</b></p>
<b>Value Base</b>	<p>All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.</p>
<b>Health and Safety Information</b>	<p>For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.</p>

## 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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