

# Product Data Sheet

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## Sikaflex<sup>®</sup> PRO-2HP Joint Sealing Compound



**Description** Permanently elastic one-component joint sealing compound on polyurethane base.

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**Uses** Universal joint sealing compound for building construction, e.g.:

For movement joints in:

- Precast concrete construction
- Balcony parapets
- Bridge cantilevers
- Retaining walls
- Subways

For caulking of:

- Windows and doors
  - Skirtings
  - Wall/floor joints
  - Shutter houseings
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**Advantages**

- One-component, ready for use
- Bubble-free curing system
- Good adhesion to many substrates
- Short skinning time
- Good weathering- and ageing properties
- Excellent workability, easy to use
- Can be overpainted

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**Test Reports** Tested according to BS 4254-1983, BS 5889: 1989 Type A, US-FS-TT-S-00230C Type II, Class A, US-FS-TT-S-00227E Type II, Class A, ASTM C920, Type S, Gradens Class 25 use NT, A+M. SNJF. WRC (contact with drinking water, based DN BS 6920: part 1: 1990). ISO 11600, Group F, Class 25 LM (Testreport 32906/97 Süddeutsches Kunststoffzentrum).

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## Technical Data

<b>Colours</b>	White, concrete grey, other colours on request.												
<b>Specific weight</b>	1.2 - 1.3 kg/l depending on colour shade.												
<b>Shelf life</b>	15 months from date of production if stored in cool (at +10°C to 25°C) and dry conditions.												
<b>Packaging</b>	20 x 600 ml unipacs per carton												
<b>Curing system</b>	Moisture curing												
<b>Skinning time</b> (at +23°C / 50% r.h.)	1 - 2 hrs.												
<b>Curing speed</b> (at +23°C / 50% r.h.)	2 mm/day												
<b>Shore A hardness</b> DIN 53 505	20 - 25 (after 28 days at +23°C / 50% r.h.)												
<b>Service temperature</b>	dry: -30°C to +70°C wet: up to +40°C (temporary up to +50°C)												
<b>Elongation at break</b> DIN 53 455	> 800%												
<b>Tensile strength at break</b> DIN 53 455	> 1.5 N/mm <sup>2</sup>												
<b>Recovery</b> DIN 52 458	> 80%												
<b>Tear resistance</b> DIN 53 515	> 7 N/mm <sup>2</sup>												
<b>Joint design</b>	<p>a) <i>Façade joints (precast concrete elements) DIN 18540</i></p> <p>Joint distance (m)    -2.0    2-3.5    3.5-5    5-6.50    6.5-8</p> <p><b>Min. joint dimensions at time of sealant application:</b></p> <table> <tr> <td>Joint width (mm)</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> <td>30</td> </tr> <tr> <td>Joint depth (mm)</td> <td>8</td> <td>10</td> <td>12</td> <td>15</td> <td>15</td> </tr> </table> <p>b) <i>For other, common applications:</i></p> <p>Sealant-bead diameter (joint factor)</p> <p><i>Width : Depth</i>    up to 10 mm joint width        = 1 : 1                              more than 10 mm joint width    = 2 : 1 (min. depth 8 mm)</p> <p>Min. joint width for window caulking: 10 mm</p>	Joint width (mm)	10	15	20	25	30	Joint depth (mm)	8	10	12	15	15
Joint width (mm)	10	15	20	25	30								
Joint depth (mm)	8	10	12	15	15								
<b>Max. joint width</b>	35 mm												
<b>Min. joint depth for expansion joints</b>	8 mm												
<b>Max. permissible joint movement</b> (expansion - contraction)	25% of average joint width												
<b>Max. permissible shear movement</b> (longitudinal or transversal to joint axis)	20 % of joint width												
<b>Tensile strength</b> DIN 52 455	At 100% elongation + 23°C < 0.40 N/mm <sup>2</sup> At 60% elongation - 20°C < 0.60 N/mm <sup>2</sup>												

## Application

**Application temperature** +5°C to +40°C (material and substrate temperature)

**Substrate** Clean and dry, free from dust and loose particles. Paint, laitance and other poorly adhering particles must be removed by grinding. Clean joint with compressed air.

**Back-up material** Soft, round or flat polyethylene profiles.

**Primer** For the selection of the suitable primer, please consult our Primer -Chart.

**Application** Protect joint flanks with masking tape.  
Insert back-up profile, apply primer and observe waiting time.  
Apply joint sealant with hand- or air pressure gun, avoiding air entrapment. Level sealant with trowel to concave finish.  
Where necessary, smooth sealant with clean water, adding a few drops of a synthetic detergent.  
Remove masking tape before sealant has started to cure.  
Clean tools immediately after use with Colma Cleaner. Hardened material can only be mechanically removed.

**Important**

- When smoothing sealant, please observe that no "smoothing" liquid is allowed to penetrate between sealant and joint flank.
- To maintain max. movement capacity, do not overcoat joint sealant completely, only the joint sides should be overcoated to max. 1 mm width. Should overcoating be necessary, trials must be carried out to observe adhesion and drying behaviour of coating.
- Insufficient ventilation (lack of moisture) slows curing rate.
- Silicone based products can negatively influence curing as well as bonding properties of sealant.
- Do not apply to concrete substrates treated with transparent coatings (glazed).
- Colours may be influenced by exposure to weathering (chemicals, high temperatures, UV).

## Safety Instructions

**Safety precautions** To avoid rare allergic reactions, we recommend the use of rubber gloves. Change soiled work clothes and wash hands before breaks or after finishing work.

**Ecology/Disposal** Do not let uncured sealant get into sewers, waters or soil.  
Completely emptied cartridges and unipacs are not classified as "special" refuse and may be disposed of together with household garbage. Expired material in original containers as well as only partially empty containers must be disposed of as "special" refuse.

**Toxicity** Non-toxic under the relevant Swiss Health and Safety Codes.

**Transport** Non-hazardous.

### In case of doubt, always follow the directions given on the pack or label.

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.



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