

Product Data Sheet
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Sikaflex® PRO-2 HP

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1-part soft elastic sealant for building joints

Product Description

Sikaflex® PRO-2 HP is a one part, moisture curing, soft elastic joint sealant based on polyurethane. Suitable for movement joints and connections joints for indoor and outdoor applications.

Uses

Sikaflex® PRO-2 HP is suitable for sealing joints in building construction especially for movement joints in concrete elements but also for joints balcony parapets, connection joints (around windows and doors, facades, metal claddings, concrete elements) as well as joints in wood and metal structures.

Characteristics / Advantages

- Good weather and ageing resistance
- Movement capability 25%
- Bubble-free curing
- Low stress to the substrate
- Practice related workability (easy to smooth)
- Excellent adhesion to many substrates

Tests

Approval / Standards

Conforms to the requirements of ISO 11600, F 25 LM.

Product Data

Form

Colours

White, concrete grey, middle grey, dark grey, black

Packaging

600 ml sausages, 20 sausages per box

Storage

Storage Conditions / Shelf-Life

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.

Construction



Technical Data

Chemical Base	1-part polyurethane, moisture curing.	
Density	~ 1.3 kg/l (colour concrete grey)	(DIN 53 479)
Skinning Time	~ 60 - 120 minutes (+23°C / 50% r.h.)	
Curing Rate	~ 2 - 3 mm/24 h (+23°C / 50% r.h.)	
Movement Capability	25%	
Joint Dimensions	Min. width = 10 mm / max. width = 35 mm	
Sag Flow	0 mm, very good	(DIN EN ISO 7390)
Service Temperature	-40°C to +70°C	

Mechanical / Physical Properties

Tear Strength	~ 7 N/mm (+23°C / 50% r.h.)	(DIN 53 515)
Shore A Hardness	~ 25 after 28 days (+23°C / 50% r.h.)	(DIN 53 505)
E-Modulus	~ 0.3 N/mm ² at 100% elongation (+23°C / 50% r.h.) ~ 0.6 N/mm ² at 100% elongation (-20°C)	(DIN EN ISO 8340)
Elongation at Break	~ 800% (+23°C / 50% r.h.)	(DIN 53 504)
Elastic Recovery	> 80% (+23°C / 50% r.h.)	(DIN EN ISO 7389 B)

System Information

Application Details

Consumption / Joint Design

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

Standard 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	15 mm	20 mm	25 mm	30 mm	35 mm
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 joints around windows: 10 mm

Joints must be properly dimensioned as changes are normally no longer feasible after construction. Basis for calculation of the necessary joint width are the technical characteristic values of the joint sealant and the adjacent building materials, the exposure of the building elements, their construction and size.

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 / 600 ml	~ 7.5 m	~ 4.5 m	~ 2.5 m	~ 1.6 m	~ 1.3 m

The stated values are indications only

Backfilling:

Use only close cell, sealant compatible foam backer rods e.g. high resilience polyethylene foam rod.

Substrate Quality

Clean and dry, homogeneous, free from grease, dust and loose particles.

Paint, laitance and other poorly adhering particles must be removed. Standard construction rules must be observed.

Substrate Preparation / Priming	<p><i>Sika® Primer-3:</i> For porous substrates e.g. concrete, aerated concrete and cement plaster. Flash off time: min. 30 minutes, max. 8 hours</p> <p><i>Sika® Cleaner-205:</i> For power coatings EP and PU coatings. Flash off time: 15 minutes</p> <p><i>Sika® Primer-215:</i> For PVC and for mortar in connection joints between PVC and building. Flash off time: min. 30 minutes, max. 8 hours</p> <p><i>Sika® Primer-35:</i> For metals e.g. Aluminium, stainless steel, galvanised steel. Flash off time: min. 30 minutes, max. 8 hours</p> <p>Primers are only adhesion promoters. They neither substitute the cleaning of the surfaces nor improve their strength significantly.</p> <p>For further information contact Sika® Primer list.</p>
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Application Conditions / Limitations

Substrate Temperature	+5°C min. / +40°C max.
Ambient Temperature	+5°C min. / +40°C max.
Substrate Humidity	Dry

Application Instructions

Application Method / Tools	<p>Sikaflex® PRO-2 HP is ready to use.</p> <p>Insert Backing Rod to required depth. Insert cartridge into sealant gun and firmly extrude Sikaflex® PRO-2 HP into joint making sure that it is in full contact with the sides of the joint. Fill the joint, avoiding air entrapment. Sikaflex® PRO-2 HP should be tooled firmly against joint sides to ensure good adhesion.</p> <p>Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft. Slick joint for a smooth sealant surface .</p>
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Cleaning of Tools	Clean all tools and application equipment with sealant remover / Sika® Cleaner immediately after use. Hardened / cured material can only be mechanically removed.
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Notes on Application / Limitations	<p>Elastic sealant must not be over painted in general!</p> <p>Sealant compatible coatings may cover the joint sides to max. 1 mm. The compatibility must be tested individually according to DIN 52 452-2.</p> <p>Colour deviations may occur due to chemicals, high temperature, UV-radiation (especially with colour shade whit). A change in colour does not influence the technical and protective performance of the product.</p> <p>Before using on other natural stone than granite contact our Technical Service.</p> <p>Do not use Sikaflex® PRO-2 HP as glass sealer, in floor joints and in joints with permanent water immersion.</p> <p>Do not use on bituminous substrates, natural rubber, chloropene, EPDM or on building materials which might bleed oils, plasticisers or solvent.</p>
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Notes	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.
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Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
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Health and Safety Information

Protective Measures To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.

Local regulations as well as health and safety advice on packaging labels must be observed.

Ecology Refer to Material Safety Data Sheet.

Transportation Class Refer to Material Safety Data Sheet.

Important Notes Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the material safety data sheet.

Toxicity Refer to Material Safety Data Sheet.

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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