

# PRODUCT DATA SHEET

## Sikaflex® PRO-3

Polyurethane sealant for floor joints and civil engineering applications



### DESCRIPTION

Sikaflex® PRO-3 is a 1-part, polyurethane, tough, coloured, elastic joint sealant for sealing many types of joint configurations in floors and civil engineering structures. It provides a waterproof seal with good mechanical properties, is resistant to chemicals and remains elastic over a wide range of temperatures.

### USES

Horizontal and vertical interior and exterior sealing joint applications:

- Food industry
- Cleanrooms
- Sewage treatment plants
- Tunnels

Sealing horizontal and vertical joints for:

- Floors
- Pedestrian and traffic areas
- Car park parking decks
- Warehouse and production floor areas

### CHARACTERISTICS / ADVANTAGES

- Movement capability  $\pm 25\%$  (ISO 9047)
- Good mechanical and chemical resistance
- Bubble-free curing
- Over-paintable
- Good adhesion to defined construction materials
- Very low emissions

### SUSTAINABILITY

- Conformity with LEED v4 EQc 2: Low-Emitting Materials
- VOC emission classification GEV-Emicode EC1<sup>PLUS</sup>, license number 3206/20.10.00

### APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 15651-4 - Sealants for non-structural use in joints in buildings - Sealants for pedestrian walkways. Classification: PW EXT-INT CC 25 HM
- CE Marking and Declaration of Performance to EN 14188-2 - Joint fillers and sealants - Cold applied joint sealants
- Chemical Resistance. DIN EN 14187, SKZ, Test report No. 127980/17-IV
- Performance Test EN 15651-4, SKZ, Report, 94931/11-I-E
- Biological Resistance, ISO 846, Fraunhofer, Certificate, No SI 1103-544
- Cold applied sealants, EN 14188-2, SKZ, Report, No 94931/11-IV
- Determination of staining, ASTM C 1248-04, SKZ, Report, No 98947/11-V
- Determination of staining, ISO 16938-1, SKZ, Report, No 98947/11-II
- ISO 11600 F-class 25 HM, SKZ, Report, No 94931/11-II
- Standard specification for elastic joint sealants, ASTM C920-11 Class 35, ASTM, Report, No 0314920-SIKA
- Migration behaviour EN 1186, EN 13130, CEN/TS 14234, ISEGA, Certificate No. 48644 U 18
- Outgassing TVOC, CSM procedures, Fraunhofer, Certificate, No SI 1103-544
- Resistance against diesel and jet fuel, DIBt Guidelines, SKZ, Test report No. 94931/11-V
- Sealants in waste water systems, DIBt Guidelines, SKZ, Report, No 94931/11-III
- Water Regulations, BS 6920, UKAS, Report, No M 106170



## PRODUCT INFORMATION

Composition	Polyurethane i-Cure® Technology	
Packaging	300 ml cartridge*	12 cartridges per box
	600 ml cylindrical foil pack	20 foil packs per box
* not on stock in DK		
Colour	Colour range to be defined by local sales organisation	
Shelf life	15 months from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~1,35 kg/l	(ISO 1183-1)
Product declaration	EN 15651-4: PW EXT-INT CC 25 HM EN 14188-2 - Joint fillers and sealants - Cold applied joint sealants	

## TECHNICAL INFORMATION

Shore A hardness	~37 (after 28 days)	(ISO 868)
Secant tensile modulus	~0,60 N/mm <sup>2</sup> at 100 % elongation (+23 °C) ~1,10 N/mm <sup>2</sup> at 100 % elongation (-20 °C)	(ISO 8339)
Elastic recovery	~90 %	(ISO 7389)
Tensile strain at break	~600 %	(ISO 37)
Tear propagation resistance	~8,0 N/mm	(ISO 34)
Movement capability	± 25 % ± 35 %	(ISO 9047) (ASTM C 719)
Chemical resistance	For chemical resistance refer to the following report: Chemical Resistance. DIN EN 14187, Sikaflex® PRO-3 (SL), SKZ, Report, 127980/17-IV For resistance against water and salt water refer to the following report: Performance Test EN 15651-4, Sikaflex® PRO-3, SKZ, Report, 94931/11-I-E	
Service temperature	-40 °C to +70 °C	

### Joint design

The joint width must be designed to suit the movement capability of the sealant. The joint width must be  $\geq 10$  mm and  $\leq 40$  mm. A width to depth ratio of 1:0,8 must be maintained (for exceptions, see table below).

#### Typical joint widths for joints between concrete elements for interior applications

Joint distance [m]	Minimum joint width [mm]	Minimum joint depth [mm]
2	10	10
4	10	10
6	10	10
8	15	12
10	18	15

**Typical joint widths for joints between concrete elements for exterior applications**

Joint distance [m]	Minimum joint width [mm]	Minimum joint depth [mm]
2	10	10
4	15	12
6	20	17
8	28	22
10	35	28

All joints must be correctly designed and dimensioned in accordance with the relevant standards and codes of practice before their construction. The basis for calculation of the necessary joint widths are the type of structure, dimensions, technical values of the adjacent building materials, joint sealing material and the specific exposure of the building and the joints.

For larger joints, contact Sika® Technical Services for additional information.

## APPLICATION INFORMATION

Consumption	Joint length [m] per 600 ml	Joint width [mm]	Joint depth [mm]
	6	10	10
	3,3	15	12
	1,9	20	16
	1,2	25	20
	0,8	30	24
<b>Backing material</b>	Use closed cell, polyethylene foam backing rod		
<b>Sag flow</b>	0 mm (20 mm profile, +50 °C)		(ISO 7390)
<b>Ambient air temperature</b>	+5 °C min./+40 °C max.		
<b>Substrate temperature</b>	+5 °C min./+40 °C max. Minimum +3 °C above dew point temperature		
<b>Curing rate</b>	~3,5 mm/24 hours (+23 °C / 50 % r.h.)		(CQP* 049-2)
	* Sika Corporate Quality Procedure		
<b>Skimming time</b>	~60 minutes (+23 °C / 50 % r.h.)		(CQP 019-1)
<b>Tooling time</b>	~50 minutes (+23 °C / 50 % r.h.)		(CQP 019-2)

## BASIS OF PRODUCT DATA

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.

## FURTHER INFORMATION

- Pre-treatment Sealing and Bonding Chart
- Sika® Method Statement: Joint Sealing
- Sika® Method Statement: Joint Maintenance, Cleaning and Renovation

## IMPORTANT CONSIDERATIONS

- Sikaflex® PRO-3 can be over-painted with most conventional facade paint coating systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials (e.g. according to ISO technical paper: Paintability and Paint Compatibility

of Sealants). Optimum results are obtained when the sealant is allowed to fully cure first. Note: non-flexible paint systems may impair the elasticity of the sealant and lead to cracking of the paint coating. Depending on type of paint used, plasticiser migration may occur causing the paint to become surface 'tacky'.

- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/or UV-radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- For application on reconstituted, cast or natural stone, preliminary trials must be carried out to check if the stone experiences plasticiser migration. For a suitable primer to prevent plasticiser migration, contact Sika® technical services.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could

degrade the sealant.

- Do not use to seal joints in and around swimming pools.
- Do not expose uncured Sikaflex® PRO-3 to alcohol containing products as this may interfere with the curing reaction.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Vedhæftningstest på projektspecifikke overflader skal udføres, og procedurer aftales med alle parter inden endelig projektstart.

Bemærk: Primere og aktivatorer er vedhæftningsfremmende og ikke et alternativ til at forbedre dårlig forberedelse / rengøring af fugeflader. Primere forbedrer også den langsigtede vedhæftningsevne af fugemassen. Kontakt Sikas Tekniske Services for yderligere information.

The substrate must be clean, dry, sound and free from oils, grease, dust, cement laitance and loose or friable particles.

Removal techniques such as wire brushing, grinding, grit blasting or other suitable mechanical tools can be used.

Damaged joint edges can be repaired with suitable Sika repair products

Where joints in substrate are saw cut. After sawing, all slurry material, must be flushed away and joint surfaces allowed to dry.

All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or sealant.

For optimum adhesion, joint durability and critical, high performance applications such as joints on multi-storey buildings, highly stressed joints, extreme weather exposure or water immersion / exposure. The following priming and/or pre-treatment procedures must be followed:

### Non-porous substrates

Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles. Slightly roughen surface with a fine abrasive pad. Clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth.

Before sealing, allow a waiting time of > 15 minutes (< 6 hours).

Other metals, such as copper, brass and titanium-zinc, clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth. After a waiting time of > 15 minutes (< 6 hours). Apply Sika® Primer-3 N applied by brush. Before sealing, allow a waiting time of > 30 minutes (< 8 hours)

PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a waiting time of > 30 minutes (< 8 hours).

### Porous substrates

Concrete, aerated concrete and cement-based renders, mortars and bricks surfaces must be primed using Sika® Primer-3 N or Sika® Primer-210 applied by brush.

Before sealing, allow a waiting time of > 30 minutes (< 8 hours).

Adhesion tests on project specific substrates must be performed and procedures agreed with all parties before full project application.

Note: Primers and activators are adhesion promoters and not an alternative to improve poor preparation / cleaning of the joint surface. Primers also improve the long-term adhesion performance of the sealed joint. Contact Sika® Technical Services for additional information.

### MIXING

1-part ready to use

### APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

### Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skinning time after finishing.

### Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

### Priming

If required, prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

### Application

Sikaflex® PRO-3 is supplied ready to use.

Prepare the end of the foil pack or cartridge, insert in-

to the sealant gun and fit the nozzle. Extrude Sikaflex® PRO-3 into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

### Finishing

As soon as possible after application, sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish.

Use a compatible tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surface. Water can be used. Do not use tooling products containing solvents.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Hardened material can only be removed mechanically. For cleaning skin, use Sika® Cleaning Wipes-100.

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

### LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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#### PRODUCT DATA SHEET

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