

Product Data Sheet
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Sikaflex® PRO-3 WF

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1-part high performance sealant for flooring

Product Description

Sikaflex® PRO-3 WF is a moisture curing 1-part elastic sealant based on polyurethane with high mechanical resistance. For indoor and outdoor applications.

Uses

Sikaflex® PRO-3 WF is a multipurpose floor joint sealant suitable for:

- Movement and connection joints in floors
- Indoor and outdoor applications for pedestrian and traffic areas (e. g. parking decks, car parks)
- In warehouses and production areas
- On surfaces such as in the food industry
- In ceramic tiles such as in public buildings etc.
- Joints in waste water and sewage treatment plants
- Floor joints in tunnel construction

Characteristics / Advantages

- Movement capability 25%
- Bubble-free curing
- Very good application properties
- Good mechanical and chemical resistance
- Very good adhesion to most construction materials

Tests

Approval / Standards

- Conforms to ISO 11600 F 25 HM.
Tested according to the Principals of DIBT for Waste Water Exposure
ISEGA Certificate for foodstuff area usage.

Construction



Product Data

Form

Colours White, concrete grey, mid grey, black

Packaging 600 ml sausages, 20 sausages per box
300 ml cartridges. 12 cartridges per box

Storage

Storage Conditions / Shelf-Life 15 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.

Technical Data

Chemical Base 1-part polyurethane, moisture curing

Density ~ 1.3 kg/l (colour concrete grey) (DIN 53 479-B)

Skinning Time ~ 90 minutes (+23°C / 50% r.h.)

Curing Rate ~ 2 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 ~ 8 N/mm (+23°C / 50% r.h.) (DIN 53 515)

Shore A Hardness ~ 35 after 28 days (+23°C / 50% r.h.) (DIN 53 505)

E-Modulus ~ 0.5 N/mm² at 100% elongation (+23°C / 50% r.h.) (DIN EN ISO 8340)

Elongation at Break ~ 700% (+23°C / 50% r.h.) (DIN 53 504)

Elastic Recovery > 80% (+23°C / 50% r.h.) (DIN EN ISO 7389 B)

Resistance

Chemical Resistance Resistant to water, seawater, diluted alkalis, cement grout and water dispersed detergents.

Not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids, chlorinated, aromatic (hydro-carbons) fuel.

System Information

Application Details

Consumption / Joint Design

Joints < 10 mm are normally designed for crack control and therefore they are not movement / expansion joints. The joint width to depth ratio is important at the time of the application of the sealant (guide value of +10°C).

For a temperature differential of +40°C:

Joint distance	2 m	4 m	6 m	8 m	10 m
Min. joint width	10 mm	10 mm	10 mm	15 mm	20 mm
Thickness of sealant	10 mm	10 mm	10 mm	12 mm	15 mm

For exterior areas (max. temperature differential of +80°C):

Joint distance	2 m	4 m	5 m	6 m	8 m
Min. joint width	10 mm	15 mm	18 mm	20 mm	30 mm
Thickness of sealant	10 mm	12 mm	15 mm	15 mm	25 mm

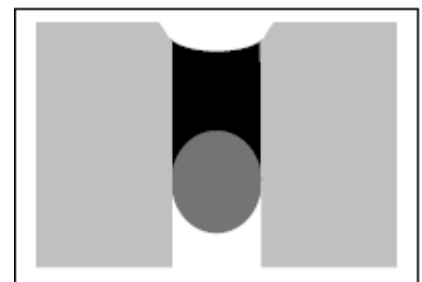
All joints must be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width are the technical values of the joint sealant and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

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	10 mm	12 - 15 mm	17 mm	20 mm	25 mm
Joint length / 600 ml	~ 6 m	~ 2.5 - 3.0 m	~ 1.8 m	~ 1.2 m	~ 0.8 m
Joint length / 300 ml	~ 3 m	~ 1.5 m	~ 0.9 m	~ 0.6 m	~ 0.4 m

Backing: Use only closed cell, polyethylene foam backing rods.



The flush joint design rules out trip hazards and dirt traps.



The recessed joint design protects the sealant against mechanical loads.

Substrate Quality	Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.
Substrate Preparation / Priming	<p>Non porous substrates: E.g. metals, powder coatings etc. have to be cleaned with a fine abrasive pad and SikaCleaner-205 by using a clean towel / cloth. After a flash off time of at least 15 min, apply SikaPrimer-3 N by using a brush. Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.). For PVC use SikaPrimer-215. Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).</p> <p>Porous substrates: E.g. concrete, aerated concrete and cementitious renders, mortars, brick, etc. have to be primed with SikaPrimer-3 N by using a brush. Before sealing allow a flash off time of at least 30 min. (max. 8 hrs.).</p> <p>Important note: Primers are only adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly. Primers improve long term performance of a sealed joint. For further information refer to the Sika® Primer table.</p>
Application Conditions / Limitations	
Substrate Temperature	+5°C min. / +40°C max.
Ambient Temperature	+5°C min. / +40°C max.
Substrate Moisture Content	Dry
Application Instructions	
Application Method / Tools	<p>Sikaflex® PRO-3 WF 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 PRO-3 WF into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. Sikaflex PRO-3 WF must be tooled firmly against joint sides to ensure good adhesion. 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>
Cleaning of Tools	Clean all tools and application equipment with Sika® Remover-208 / Thinner C immediately after use. Hardened / cured material can only be removed mechanically.
Notes on Application / Limitations	<p>Elastic sealants may not be over painted.</p> <p>Compatible coatings may cover the joint sides to max. 1 mm. The compatibility must be tested according to DIN 52 452-2.</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 Department.</p> <p>Do not use Sikaflex® PRO-3 WF 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® PRO-3 WF to seal swimming pools.</p> <p>Do not mix with or expose uncured Sikaflex® PRO-3 WF 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.</p>

Value Base 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.

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.

Health and Safety Information 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.

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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