BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex® PRO-3 WF

1-PART HIGH PERFORMANCE SEALANT FOR FLOORING

DESCRIPTION

Sikaflex® PRO-3 WF is a 1-component, moisture-curing, elastic joint sealant with high mechanical and chemical resistance.

USES

Sikaflex® PRO-3 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
- Applications in cleanrooms.
- 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
- Solvent free and odourless.
- Very low emission.
- Very good adhesion to most construction materials

SUSTAINABILITY

- LEED® EQc 4.1
- SCAQMD, Rule 1168
- BAAQMD, Reg. 8, Rule 51

APPROVALS / CERTIFICATES

- Conforms to EN15651-4 PW EXT-INT CC 25 HM
- Conforms to ISO 11600 F 25 HM
- Tested according principals of DIBT for Waste Water Exposure
- EMICODE EC1 PLUS R, very low emission
- ISEGA Certificate for foodstuff area usage.
- Conforms to BS 6920 (drinking water contact)
- CSM TVOC tested (ISO-6.8)
- CSM biological resistant : very good
- Resistance against Diesel and Jet Fuel according to the DIBT guidelines.

PRODUCT INFORMATION

Composition	Polyurethane	
Packaging	600 ml sausages, 20 sausages per box 310 ml cartridges. 12 cartridges per box	
Colour	White, black, concrete grey, medium grey, further colours available upon request	
Shelf life	15 months from date of production	
Storage conditions	Sikaflex® PRO-3 WF shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +25 °C.	
Density	1.35 kg/l approx.	(CQP1) 006-4, ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	~37 (after 28 days)	(ISO 868)
Secant Tensile Modulus	~0.60 N/mm² at 100 % elongation (23 °C) ~1.20 N/mm² at 100 % elongation (−20 °C)	(ISO 8339)
Elongation at Break	~600 % approx2	(CQP 036-1, ISO 37)
Elastic Recovery	>90 %2	(ISO 7389)
Tear Propagation Resistance	~8.0 N/mm	(ISO 34)
Movement Capability	±25 %	(ISO 9047)
	±25 %	(ASTM C 719)
Chemical Resistance	Sikaflex® PRO-3 WF is resistant to water, seawater, diluted alkalis, cement slurry and water dispersed detergent. Sikaflex® PRO-3 WF is not resistant to alcohols, organic acids, concentrated alkalis and concentrated acids and hydro-carbons.	
Service Temperature	−40 °C min. / +70 °C max.	
Joint Design	The joint width must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be ≥ 10 mm and ≤ 40 mm. A width to depth ratio of 1:0.8 must be maintained (for exceptions, see table below).	

Standard joint widths for joints between concrete elements for interior applications:

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

Standard joint widths for joints between concrete elements for exterior applications:

Joint distance [m]	Min. joint width [mm]	Min. 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, before their construction. The basis for calculation of the necessary joint widths are the type of structure and its dimensions, the technical values of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints.
For larger joints please contact Sika technical service.

APPLICATION INFORMATION

Consumption	Joint length [m] per 600 ml foil pack	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

Backing Material	Use closed cell, polyethylene foam backing rods.	
Sag Flow	0 mm (20 mm profile, 50 °C)	(ISO 7390)
Ambient Air Temperature	+5 °C min. / +40 °C max., min. 3 °C above dew point temperature	
Substrate Temperature	+5 °C min. / +40 °C max.	
Curing Rate	~3.5 mm/24 hours (23 °C / 50 % r.h.)	(CQP 049-2)
Skinning time	~60 Minutes approx	(CQP 019-1)
Tooling Time	~45 minutes Approx[2]	(CQP 019-2)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Sikaflex® PRO-3 generally has strong adhesion without primers/activators to most clean, sound substrates. For optimum adhesion and critical, high performance applications such as multi story building work, high stress bonding joints, extreme weather exposure or water immersion the following procedure shall be followed:

Non porous substrates
Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals or glazed tiles have to be cleaned and pre-treated with Sika®Aktivator-205 by using a clean towel. Before sealing allow a flash-off time >15 min (max.6 hours).
Metals like copper, bras, titanium-zinc etc. have to be cleaned and pre-treated with Sika®Aktivator-205 by using a clean towel. After a flash-off time >15 minutes, apply Sika®Primer-3 N by using a brush and allow a flash-off time >30 minutes (max. 8 hours) before sealing.
PVC has to be cleaned and thereafter pre-treated with Sika® Primer-215 by using a brush. Before sealing allow a flash-off time > 30 min (max.8 hours).

Porous substrates
Concrete, aerated concrete and cementitious plasters, mortars, brick, etc. have to be primed with Sika®Primer-3 N by using a brush. Before sealing allow a flash-off time >30 minutes (max. 8 hours).
For detailed instructions consult the Product Data Sheet for pre-treatments or contact our Technical Service Department.
Primers are adhesion promoters. They neither substitute for the correct cleaning of the surface nor improve their strength significantly.

APPLICATION METHOD / TOOLS

Sikaflex® PRO-3 WF is supplied ready to use.
After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply any primer if necessary. Insert a foil pack or cartridge into the sealant gun and extrude Sikaflex® PRO-3 WF into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikaflex® PRO-3 WF sealant must be firmly tooled against the joint sides to ensure adequate adhesion.
It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time. Use a compatible tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surfaces. Do not use tooling products containing solvents.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208 and/or Sika® Top-Clean T. Once cured, residual material can only be removed mechanically.

IMPORTANT CONSIDERATIONS

- Sikaflex® PRO-3 WF can be overpainted with most conventional facade coating paint 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). The best over-painting 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 film.
- Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour shade white). However, a change in colour is purely of aesthetic nature and

does not adversely influence the technical performance or durability of the product.
- Do not use Sikaflex® PRO-3 WF on natural stone.
- Do not use Sikaflex® PRO-3 WF on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack the sealant.
- Do not use Sikaflex® PRO-3 WF to seal joints in and around swimming pools.
- Do not expose uncured Sikaflex® PRO-3 WF to alcohol containing products as this may interfere with the curing reaction.

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.

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.

ECOLOGY, HEALTH AND SAFETY

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

LEGAL NOTES

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