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PRODUCT DATA SHEET Sikaflex[®] PRO-3 Purform[®]

Polyurethane sealant for floor joints and civil engineering applications

DESCRIPTION

Sikaflex[®] PRO-3 Purform[®] is a 1-part, moisture curing, elastic polyurethane sealant. It seals many kinds of joint configurations in floors and civil engineering structures. The elasticity is maintained over a wide temperature range and high mechanical and chemical resistance provides good durability.

USES

The Product is used for the following horizontal and vertical interior and exterior joint sealing applications:

- Food industry
- Clean rooms
- Warehouse and production floor areas
- Sewage treatment plants
- Tunnels
- Car park decks
- Pedestrian and traffic areas

FEATURES

- High movement capability: ±25 % (ISO 9047), ±50 % (ASTM C719)
- Fast development of mechanical properties
- High mechanical resistance
- Extended application range to lower temperatures
- High chemical resistance
- High resistance to weathering
- Non-staining to a wide range of substrates
- Monomeric diisocyanate content <0.1 %: no user safety training needed (REACH restriction 2023, Annex XVII entry 74)
- Bubble-free curing
- Good adhesion to many construction materials

SUSTAINABILITY

- Conforms with LEED v4 EQ credit: Low-emitting materials
- VOC emission classification GEV Emicode EC1^{plus}

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 15651-4:2012 Sealants for non-structural use in joints in buildings and pedestrian walkways — Part 4: Sealants for pedestrian walkways
- CE marking and declaration of performance based on EN 14188-2:2004 Joint fillers and sealants — Part 2: Specifications for cold applied sealants
- Tensile Properties, Adhesion, Change of Volume tests ISO 11600 F Class 25 HM
- Standard Specification for Elastomeric Joint Sealants, ASTM C 920
- Chemical Resistance, DIN EN 14187, SKZ, Report No. 208323/20
- Determination of the staining, ASTM 1248-04, SKZ, Report No.205279/19-VI
- Waste water, DIBt, SKZ, Test Report No. 205279/19-V
- Outgassing VOC/SVOC, CSM procedures, Fraunhofer, Certificate, No. SI 1909-1140
- Testing of joint sealant for pedestrian walkways ISO 11618, SKZ, No. 205279/19-VII
- Sealants -Durability to extension compression, ISO 19862, Sikaflex[®] PRO-3 Purform
- Foodstuff and migration behaviour EN 1186, EN 13130, CEN/TS 14234, ISEGA, No. 54313 U 22
- AS/NZS 4020:2018 Potable drinking water approved

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PRODUCT INFORMATION

Product declaration	 EN 15651-4: PW EXT-INT CC 25 HM EN 14188-2: Class 35 ISO 11600. Class 25 HM F ASTM C 920 - Type S, Grade NS, Movement Class 50 Use T1, Use NT, Use I Class 2, Use M ASTM C 920 - Type S, Grade NS, Movement Class 50 Use T1, Use NT, Use I Class 2, Use M ASTM C 920 - Type S, Grade NS, Movement Class 50 Use T1, Use NT, Use I Class 2, Use M ASTM C 920 - Type S, Grade NS, Movement Class 50 Use T1, Use NT, Use I Class 2, Use M ASTM C 920 - Type S, Grade NS, Movement Class 50, Use T1, Use NT, Use I Class 2, Use M Waste water test according to DIBT guidlines ISEGA certificate 		
Composition	Sika [®] Purform [®] Polyurethane Technology		
Packaging	600 ml cylindrical foil pack 20 foil packs per box		
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.		
Colour	Concrete grey		
Density	~1.30 kg/l (ISO 1183-		(ISO 1183-1)
SYSTEM INFORMATION			
Compatibility	 Non-staining on many natural stones according to ASTM 1248-04 / ISO 16938-1. To confirm suitability, tests must be carried out according to ISO 16938-1/ ASTM 1248-04 before using on natural stones and full project application. 		
TECHNICAL INFORMATION			
Shore A hardness	~~40 (after 28 days) 80 % of final hardness +5 °C +10 °C +23 °C +40 °C	Time6 days5 days2 days1 day	(EN ISO 868)
Secant tensile modulus	~0.65 N/mm ² at 100 % elongation (+23 °C) (ISO 8 ~1.00 N/mm ² at 100 % elongation (-20 °C)		(ISO 8339)
Tensile strain at break	~800 %		(ISO 37)
Movement capability	± 25 %		(EN ISO 9047)
	± 35 %		(EN 14188-2)
	± 50 %		(ASTM C719)
Elastic recovery	~90 %		(EN ISO 7389)
Tear propagation resistance	~9.0 N/mm		(ISO 34-2)
Service temperature	Maximum Minimum	+80°C -40°C	
Chemical resistance	chemical resistance and I	cals. Refer to EN 14187-6 SH EN 15651-4 SKZ test report al Services for additional inf	for water and salt wa-

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Contact with water	Potable Water App	Potable Water Approved			
Resistance to weathering	High resistance to v	High resistance to weathering (10 cycles)			
Joint design	the sealant. The join of 40 mm.	The joint dimensions must be designed to suit the movement capability of the sealant. The joint width must be a minimum of 10 mm and a maximum of 40 mm. All joints must be correctly designed and dimensioned in accordance with			
	the relevant standa basis for calculation	the relevant standards and codes of practice before their construction. The basis for calculation of the necessary joint widths are:			
	 Dimensions 	The type of structureDimensions			
		 Technical values of adjacent building materials Joint sealing material 			
	 The specific expo 	 The specific exposure of the building and the joints 			
	-	A width to depth ratio of 1:0.8 for floor joints must be maintained (for exceptions, see table below).			
	-	For larger joints, contact Sika [®] Technical Services for additional informa-			
	tion.				
		Example for typical joint widths for joints between concrete elements for interior applications considering 25 % movement capability according to EN 15651.4:			
	Joint distance	Minimum joint width	Minimum joint depth		
	2 m	10 mm	10 mm		
	4 m	10 mm	10 mm		
	6 m	10 mm	10 mm		
	8 m	15 mm	12 mm		
	10	19 mm	15 mm		
		<u>18 mm</u> joint widths for joints betwee s considering 25 % movemer	en concrete elements for		
	Example for typical		en concrete elements for		
	Example for typical exterior application EN 15651-4:	joint widths for joints between s considering 25 % movemer <u>Minimum joint width</u> 10 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m	joint widths for joints between s considering 25 % movemer <u>Minimum joint width</u> 10 mm <u>15 mm</u>	en concrete elements for ht capability according to Minimum joint depth		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu-		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu-		
APPLICATION INFORMA	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design	joint widths for joints between s considering 25 % movemen Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations referent guidlines: Dimensioning of co	en concrete elements for t capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints.		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design TION Joint width 10 mm	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design TION Joint width 10 mm 15 mm	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm 12 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m 3.3 m		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design TION Joint width 10 mm 15 mm 20 mm	joint widths for joints between s considering 25 % movemer Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm 12 mm 16 mm	en concrete elements for th capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m 3.3 m 1.9 m		
	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design ATION Joint width 10 mm 15 mm 20 mm 25 mm	joint widths for joints between s considering 25 % movemen Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm 12 mm 16 mm 20 mm 24 mm	en concrete elements for ht capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m 3.3 m 1.9 m 1.2 m 0.8 m		
Consumption	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design ATION Joint width 10 mm 15 mm 20 mm 25 mm 30 mm	joint widths for joints between s considering 25 % movemen Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm 12 mm 16 mm 20 mm 24 mm	en concrete elements for nt capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m 3.3 m 1.9 m 1.2 m		
Consumption Sag flow	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design ATION Joint width 10 mm 15 mm 20 mm 25 mm 30 mm	joint widths for joints between s considering 25 % movemen Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm 12 mm 16 mm 20 mm 24 mm le, +50 °C)	en concrete elements for ht capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m 3.3 m 1.9 m 1.2 m 0.8 m		
Consumption Sag flow	Example for typical exterior application EN 15651-4: Joint distance 2 m 4 m 6 m 8 m 10 m For details of joint of ment, Sika® Design TION Joint width 10 mm 15 mm 20 mm 25 mm 30 mm 0 mm (20 mm profi	joint widths for joints between s considering 25 % movemen Minimum joint width 10 mm 15 mm 20 mm 28 mm 35 mm design and calculations refer guidlines: Dimensioning of co Joint depth 10 mm 12 mm 16 mm 20 mm 24 mm le, +50 °C) +40 °C	en concrete elements for th capability according to Minimum joint depth 10 mm 12 mm 17 mm 22 mm 28 mm to the following docu- onstruction joints. Joint length per 600 ml foil pack 6 m 3.3 m 1.9 m 1.2 m 0.8 m		

For applications at temperatures below +5 °C, please contact Sika Techincal Services.

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Maximum	+40 °C	
Minimum	0 °C	
Note: The substrate temperature must be +3 °C above dew point temper- ature and free from frost and ice.		
Use closed cell, polyethylene foam backing rod		
~3.5 mm/24 hours (+23 °C / 50 % r.h.)		
~50 minutes (+23 °C / 50 % r.h.)		
~40 minutes (+23 °C / 50 % r.h.)		
	Minimum Note: The substrate tem ature and free from frost Use closed cell, polyethy ~3.5 mm/24 hours (+23 ° ~50 minutes (+23 °C / 50	

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 & Bonding Chart
- Method Statement Joint Sealing
- Method Statement Joint Maintenance, Cleaning and Renovation
- Sika[®] Additional Technical Information: Dimensioning of construction joints

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

IMPORTANT

Bituminous, natural rubber or EPDM rubber substrates

Do not use the Product on any building materials which might leach oils, plasticisers or solvents that could degrade the sealant.

Primers are adhesion promoters and not an alternative to improve poor preparation / cleaning of the joint surface.

Note: Primers also improve the long term adhesion performance of the sealed joint.

Substrate testing

Note: Adhesion tests on project specific substrates must be performed and procedures agreed with all parties before full project application. For more detailed advice and instructions contact Sika Technical Services.

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded coatings which could affect adhesion of the sealant.

The substrate should be of sufficient strength to cope with the stresses induced by the sealant during move-

Product Data Sheet Sikaflex® PRO-3 Purform® October 2023, Version 02.03 02051501000000028 ment. Removal techniques such as wire brushing, grinding, grit blasting or other suitable mechanical tools must be used. Repair all damaged joint edges with suitable Sika repair products. All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or sealant.

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

For optimum adhesion, joint durability and critical, high performance applications such as joints on multistorey buildings, highly stressed joints, extreme weather exposure the following priming and/or pretreatment procedures must be followed:

NON-POROUS SUBSTRATES

Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals, or glazed tiles.

- Lightly roughen the surface with a fine abrasive pad.
- Clean and pre-treat using Sika[®] Aktivator-205 applied with a clean cloth.
- Other metals, such as copper, brass and titanium-zinc.
- Lightly roughen the surface with a fine abrasive pad.
- Clean and pre-treat using Sika® Aktivator-205 with a clean cloth.
- Wait until the flash off time has been achieved.
- Apply Sika[®] Primer-3 N by brush.
- PVC substrates.
- Clean and pre-treat using Sika® Primer-215 applied with a brush.

POROUS SUBSTRATES

Concrete, aerated concrete and cement based renders, mortars and bricks.

 Prime surface using Sika[®] Primer-3 N applied by brush.

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 for further information.

ASPHALT (ACC. TO EN 13108-1 AND EN 13108-6) Fresh cut or existing cut asphalt must have a clean bonding surface with minimum 50% exposed aggregate.

 Prime surface using Sika[®] Primer-3 N applied by brush.

Note: For more details of the primer or pre-treatment products refer to the individual Product Data Sheet. Contact Sika Technical Services for additional information.



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MIXING

1-part ready to use

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika[®] Remover-208. Once cured, 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

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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