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PRODUCT DATA SHEET

Sikaflex[®] PRO+

SEALANT FOR CONCRETE AND MASONRY FACADES

DESCRIPTION

Sikaflex[®] PRO+ is a 1-component, moisture-curing, elastic joint sealant.

USES

Sikaflex[®] PRO+ is designed for movement and connection joints in concrete and masonry facades.

CHARACTERISTICS / ADVANTAGES

- Movement capability of ± 35% (ASTM C 719)
- Bubble-free curing
- Good workability
- Good adhesion to many substrates

PRODUCT INFORMATION

- Solvent-free
- Very low emissions

EMICODE EC1^{PLUS} R LEED[®] EQc 4.1

SCAQMD, Rule 1168

SUSTAINABILITY

BAAQMD, Reg. 8, Rule 51

APPROVALS / CERTIFICATES

- ASTM C 920 class 35
- ISO 11600 F 25 HM
- EN 15651-1 F EXT-INT CC 25 HM

Composition	i-Cure [®] Technology polyurethane		
Packaging	300 ml cartridge, 12 cartridges per box 600 ml foil pack, 20 foil packs per box		
Shelf life	Sikaflex [®] PRO+ has a shelf life of 15 months from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met.		
Storage conditions	Sikaflex [®] PRO+ shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +25 °C.		
Colour	White, Concrete Grey, Black, Dark Grey, Sandstone, Japan Beige, Brick Red, Off White Not all colours are available in all packaging sizes.		
Density	1.40 kg/l approx.	(ISO 1183-1)	
Shore A hardness	28 approx. (after 28 days)	(ISO 868)	
Secant tensile modulus	0.50 N/mm2 approx. at 100% elongation (23 °C) 1.15 N/mm2 approx. at 100% elongation (–20 °C)	(ISO 8339)	

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Tensile strain at break	800% approx.	800% approx. (ISO 37)		
Movement capability	± 25% (ISO 9047) ± 35% (ASTM C 719)			
Elastic recovery	90% approx. (ISO 7389)			
Tear propagation resistance	6.5 N/mm approx. (ISO 34			
Service temperature	–40 °C to +70 °C			
Resistance to weathering	8 (ISO / DIS 19862)			
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 \geq 10 mm and \leq 50 mm. A width to depth ratio of 2:1 must be maintained (for excep- tions, see table below). Standard joint widths for joints between concrete elements			
	Joint Distance [m]	Min. Joint Width [mm]		
	2	10	10	
	4	15	10	
	6	20	<u>10</u> 10	
	8	30	15	
	10	35	17	
	necessary joint width are the technical values of the joint sealant and the adjacent building materials, as well as the exposure of the building, type of construction and its dimensions. For larger joints please contact our Technical Service Department.			
Consumption	Joint length [m] per 600 ml foil pack	Joint width [mm]	Joint depth [mm]	
	6	10	10	
	4	15	10	
	3	20	10	
	2	25	12	
	1.3	30	15	
Sag flow	0 mm (20 mm profile	0 mm (20 mm profile, 50 °C) (ISO 7390		
Ambient air temperature	+5 °C to +40 °C, min. 3 °C above dew point temperature			
Substrate temperature	+5 °C to +40 °C			
Backing material	Use closed cell, polye	Use closed cell, polyethylene foam backing rods.		
Curing rate	3 mm/24 hours appro	3 mm/24 hours approx. (23 °C / 50% r.h.) (CQP 049-2)		
Skinning time	70 minutes approx. (23 °C / 50% r.h.)		(CQP 019-1)	
Tooling time	60 minutes approx. (60 minutes approx. (23 °C / 50% r.h.) (CQP 019-2)		
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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

- Material Data Sheet (SDS)
- Pre-treatment Chart Sealing & Bonding

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- Method Statement Joint Sealing
- Method Statement Joint Maintenance, Cleaning and Renovation
- Technical Manual Facade Sealing

IMPORTANT CONSIDERATIONS

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Sikaflex[®] PRO+ can be overpainted with most conventional facade coating paint systems. However, paints must first be tested to ensure compatibility by



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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+ on natural stone. Do not use Sikaflex[®] PRO+ 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+ to seal joints in and around swimming pools.
- Do not use Sikaflex[®] PRO+ for joints under water pressure or for permanent water immersion.
- Do not expose uncured Sikaflex[®] PRO+ 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

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Sikaflex[®] PRO+ adheres without primers and/or activators.

However, for optimum adhesion and critical, high performance applications, such as on multi-story buildings,

highly stressed joints, extreme weather exposure or water immersion, the following priming and/or pre-treatment procedures must 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 using Sika® Aktivator-205, wiped on with a clean towel. Before sealing, allow a flash-off time of > 15 minutes (< 6 hours). Other metals, such as copper, brass and titanium-zinc, also have to be cleaned and pre-treated using Sika® Aktivator-205,wiped on with a clean towel. After the necessary flash-off time, use a brush to apply Sika® Primer-3 N and allow a further flash-off time of > 30 minutes (< 8 hours) before sealing the joints. PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a flash-off time of > 30 minutes (< 8 hours).

Porous substrates

Concrete, aerated concrete and cement based

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APPLICATION METHOD / TOOLS

Sikaflex[®] PRO+ 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+ into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikaflex® PRO+ 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. Do not use tooling products containing solvents. If Sikaflex[®] PRO+ is dry-tooled it shows a slightly structured, concrete-like surface. If it is wet-tooled (using a compatible tooling agent, e.g. Sika[®] Tooling Agent N) it shows a smooth surface.

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. Once cured, residual material can only be removed mechanically.

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



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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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