A CONSTRUIR CONFIANÇA

FICHA DE DADOS DO PRODUTO

Sikaflex® Construction+

Sealant for concrete and masonry facades

DESCRIÇÃO DO PRODUTO

Sikaflex® Construction+ is a 1-part, moisture-curing, elastic joint sealant.

UTILIZAÇÕES

Sealing joints for:
- Facade elements
- Movement and connections
- Pre-cast elements
- Infill panels
- Cladding
- Curtain walling
- Interior and exterior use

Sealing between a range of porous and non-porous substrates

CARACTERÍSTICAS / VANTAGENS

- Good resistance to weathering
- Movement capability of ± 35 (ASTM C 719)
- Bubble-free curing
- Good workability
- Good adhesion to many cunstruction substrates
- Very low emissions

INFORMAÇÃO AMBIENTAL

- VOC emission classification GEV-Emicode EC1PLUSR, license number ##
- Conformity with LEED v2009 IEQc 4.1: Low-Emitting Materials - Adhesives and Sealants

CERTIFICADOS / NORMAS

- EN 15651-1 F EXT-INT CC 25 HM
- Testing Joint Sealants, ISO 11600-F, Sikaflex Construcion+, SKZ, Report, No 1002
- ASTM C 920 class 35

DADOS DO PRODUTO

Base química	i-Cure® Technology polyurethane
Fornecimento	600 ml foil pack, 20 foil packs per box
Tempo de armazenamento	Sikaflex® Construction+ 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.
Armazenagem e conservação	Sikaflex® Construction+ shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +25 °C.
Cor	Colour range to be defined by local sales organization.

Massa volúmica	~ 1.45 kg/l	(ISO 1183-1)
Compatibilidade	Compatible with the following substrates: Non-porous substrates Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals, glazed tiles, PVC Porous substrates Concrete, aerated concrete, brick, cement based renders and mortars For other types of substrates contact Sika Technical Services for additional information	

DADOS TÉCNICOS

Dureza Shore A	~28 (after 28 days)	(ISO 868)
Secante do módulo de elasticidade	~0.45 N/mm² at 100 % elongation (+23 °C) ~1.10 N/mm² at 100 % elongation (−20 °C)	(ISO 8339)
Alongamento à rotura	~800 %	(ISO 37)
Capacidade de acomodação aos movimentos	± 25 % ± 35 %	(ISO 9047) (ASTM C 719)
Recuperação elástica.	~90 %	(ISO 7389)
Resistência à propagação do rasgão	~7.0 N/mm	(ISO 34)
Temperatura de serviço	−40 °C to +70 °C	
Resistência à intempérie	8	(ISO / DIS 19862)

Projecto da junta

the sealant. The joint width must be a minimum of 6 mm and a maximum of 50 mm. A width to depth ratio of 2:1 must be maintained. Joint widths less than 10 mm are generally for interior connection joints or crack control joints and therefore considered as non-movement joints. Example of typical joint widths for joints between concrete elements for exterior applications if the joint sealant is classified as ±25 % movement capability according to ISO 9047, calculation according to DIN 18540

Joint distance [m]	Min. joint width [mm]	Min. joint depth [mm]
2	10	10
4	15	10
6	20	10
8	30	15
10	35	17

Example of typical joint widths for joints between concrete elements for exterior applications if the joint sealant is classified as ±35 % movement capability according to ASTM C 719, Calculation according to ASTM C 1472-10:

Joint distance [m]	Min. joint width [mm]	Min. joint depth [mm]
2	10	10
4	15	10
6	15	10
8	25	12
10	30	15

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

▪ The specific exposure of the building and the joints
For joint design and calculations contact Sika® Technical Services for additional information.

INFORMAÇÃO SOBRE A APLICAÇÃO

Consumo

Joint width [mm]	Joint depth [mm]	Joint length [m] per 600 ml foil pack
10	10	6
15	10	4
20	10	3
25	12	2
30	15	1.3

Escorrimento	0 mm (20 mm profile, 50 °C)	(ISO 7390)
Temperatura ambiente	+5 °C to +40 °C, min. 3 °C above dew point temperature	
Temperatura da base	+5 °C to +40 °C	
Material de fundo de junta	Use closed cell, polyethylene foam backing rods.	
Taxa de cura	~3 mm/24 hours (23 °C / 50 % r.h.)	(CQP 049-2)
Tempo de formação de pele	~65 minutes (23 °C / 50 % r.h.)	(CQP 019-1)
Tempo de acabamento	~55 minutes (23 °C / 50 % r.h.)	(CQP 019-2)

VALOR BASE

Todos os dados técnicos referidos nesta Ficha de Produto são baseados em ensaios laboratoriais. Resultados obtidos noutras condições podem divergir dos apresentados, devido a circunstâncias que não podemos controlar.

OUTROS DOCUMENTOS

- Material Data Sheet (SDS)
- Pre-treatment Chart Sealing & Bonding
- Method Statement Joint Sealing
- Method Statement Joint Maintenance, Cleaning and Renovation
- Technical Manual Facade Sealing

OBSERVAÇÕES

- Sikaflex® Construction+ can be over-painted 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® Construction+ on natural stone.
- Do not use Sikaflex® Construction+ 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® Construction+ to seal joints in and around swimming pools.
- Do not use Sikaflex® Construction+ for joints under water pressure or for permanent water immersion.
- Do not expose uncured Sikaflex® Construction+ to alcohol containing products as this may interfere with the curing reaction.

ECOLOGIA, SAÚDE E SEGURANÇA

Os utilizadores devem ler a versão mais atualizada das Fichas de Dados de Segurança (FDS) correspondentes antes de utilizar qualquer produto. As Fichas de Dados de Segurança fornecem informações e recomendações sobre o manuseamento, armazenamento e eliminação segura de produtos químicos e contêm dados físicos, ecológicos, toxicológicos e outros dados relacionados com a segurança.

Regulamento (CE) No 1907/2006 (REACH) - Formação obrigatória

A partir de 24 de Agosto de 2023 é obrigatória formação adequada antes da utilização profissional e industrial deste produto. Para mais informação e para o link para a formação visite www.sika.com/pu-training.

INSTRUÇÕES DE APLICAÇÃO

PREPARAÇÃO DA BASE

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Sikaflex® Construction+ 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 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 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 renders, mortars and bricks shall be primed using Sika® Primer-3 N applied with a brush. Before sealing, allow a flash-off time of > 30 minutes (< 8 hours).

For more detailed advice and instructions please contact the local Sika Technical Services Department.

Note: Primers are adhesion promoters. They are neither a substitute for the correct cleaning of a surface, nor do they improve the strength of the surface significantly.

MÉTODO DE APLICAÇÃO/ FERRAMENTAS

Sikaflex® Construction+ 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 into the sealant gun and extrude Sikaflex® Construction+ into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikaflex® Construction+ 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.
If Sikaflex® Construction+ 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.

LIMPEZA DE FERRAMENTAS

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

RESTRIÇÕES LOCAIS

Por favor, ter em atenção que o desempenho deste produto poderá variar ligeiramente de país para país, em função dos parâmetros regulamentares específicos de cada local. Por favor, consultar a Ficha de Produto para a descrição completa dos campos de aplicação.

NOTA LEGAL

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