

PRODUCT DATA SHEET

Sikasil® C

Silicone sealant for construction and sanitary applications

DESCRIPTION

Sikasil® C is a 1-part, alkoxy curing, non-sag, non-corrosive multipurpose elastic joint sealant for sealing many types of construction joints. It has good adhesion to most construction materials without the use of a primer. It provides an elastic and flexible waterproof seal with resistance to UV, fungus and mildew. Movement capability $\pm 25\%$.

USES

Sealing joints for:

- Glazing
- Sanitary
- Movement and connections

The Product may be used for interior and exterior applications.

FEATURES

- Primerless for most substrates and applications
- Resistant to UV exposure
- Resistant to weathering and ageing
- Good adhesion to many construction materials such as: metals, concrete, painted surfaces, wood, plastics, ceramic tiles and glass.

- Low VOC emissions
- Long term fungus and mildew resistance
- High elasticity and flexibility
- Non-corrosive
- Almost odourless

SUSTAINABILITY

- Conformity with LEED v2009 IEQc 4.1: Low-Emitting Materials - Adhesives and Sealants
- IBU Environmental Product Declaration (EPD)
- VOC emission classification GEV-Emicode EC1^{PLUS}, license number 5385/20.10.00

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 15651-1 - Sealants for non-structural use in joints-Facade elements.
- CE Marking and Declaration of Performance to EN 15651-2 - Sealants for non-structural use in joints in buildings - Sealants for glazing.
- CE Marking and Declaration of Performance to EN 15651-3 - Sealants for non-structural use in joints in buildings - Sealants for sanitary joints.

PRODUCT INFORMATION

Composition	Alkoxy silicone
Packaging	300 ml cartridge: 12 cartridges per box 400 ml foil pack: 20 foil packs per box 600 ml foil pack: 20 foil packs per box Refer to current price list for packaging variations
Colour	Colour range to be defined by local sales organisation.
Shelf life	18 months from the 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.

PRODUCT DATA SHEET

Sikasil® C

February 2026, Version 05.01

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Always refer to packaging.

Density	~1.00 kg/l	(ISO 1183-1)
Product declaration	EN 15651-1: F EXT-INT CC 25 LM EN 15651-2: G CC 25 LM EN 15651-3: S XS1	

TECHNICAL INFORMATION

Shore A hardness	~24 (after 28 days)	(ISO 868)
Tensile strength	~0.7 N/mm ²	(ISO 8339)
Secant tensile modulus	~0.40 N/mm ² at 100 % elongation (+23 °C)	(ISO 8339)
Elastic recovery	> 70 %	(ISO 7389)
Tear propagation resistance	~5.0 N/mm	(ISO 34)
Movement capability	± 25 %	(ISO 9047)
Service temperature	-40 °C min. / +150 °C max.	
Joint design	The joint dimensions must be designed to suit the movement capability of the sealant. For joint widths ≥ 10 mm and ≤ 20 mm, a joint depth of 10 mm is recommended. For larger joints contact Sika Technical Services for additional information.	
Elongation at break	~400 %	(ISO 37)

APPLICATION INFORMATION

Consumption	Joint width [mm]	Joint depth [mm]	Joint length [m] per 300 ml
	10	10	3.0
	15	10	2.0
	20	10	1.5

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Sag flow	< 1 mm (20 mm profile, +23 °C)	(ISO 7390)
Ambient air temperature	+5 °C min. / +40 °C max.	
Substrate temperature	+5 °C min. / +40 °C max. minimum +3 °C above dew point temperature	
Curing rate	~3 mm/24 hours (+23 °C / 50 % r.h.) *Sika Corporate Quality Procedure	(CQP* 049-2)
Skimming time	~35 minutes (+23 °C / 50 % r.h.)	(CQP 019-1)

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

- Pre-treatment Sealing and Bonding Chart

IMPORTANT CONSIDERATIONS

- Sikasil® C cannot be overpainted.
- Colour variations may occur due to the exposure in service to chemicals, high temperatures and/or UV-radiation (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could degrade the sealant.
- Do not use Sikasil® C in totally confined spaces as it requires atmospheric moisture to cure.
- Do not use to seal joints in and around swimming pools.
- Sikasil® C is not recommended for porous substrates such as natural stone, marble and granite. Bleeding can occur when product is used on these substrates.
- Do not use where physical or abrasion exposure is likely to occur, structural glazing and insulated glazing or food contact applications. Contact Sika Technical Services for advice on alternative products.
- Do not use for joints under water pressure or permanent water immersion.
- Do not use for medical or pharmaceutical applications.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded paint coatings which could affect adhesion of the sealant.
- The substrate must be of sufficient strength to resist the stresses induced by the sealant during movement.
- Removal techniques such as wire brushing, grinding, grit blasting or other suitable mechanical tools can be used.
- All dust, loose and friable material must be completely removed from all surfaces before application of any activators, primers or sealant.

- Sikasil® C adheres without primers and/or activators.
- For optimum adhesion, joint durability and critical, high performance applications such as joints on multi-storey buildings, highly stressed joints, extreme weather and/or water exposure. The following priming and/or pre-treatment procedures must be followed:

Non-porous substrates

- Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles. Slightly roughen surface with a fine abrasive pad. Clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth.
- Before sealing, allow a waiting time of > 15 minutes (< 6 hours).
- Other metals, such as copper, brass and titanium-zinc, cleaned and pre-treat using Sika® Aktivator-205 applied with a clean cloth. After a waiting time of > 15 minutes (< 6 hours). Apply Sika® Primer-3 N with a brush. Before sealing, allow a waiting time of > 30 minutes (< 8 hours)
- PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a waiting time of > 30 minutes (< 8 hours).
- Glass must be cleaned with Isopropanol before application.

Porous substrates

- Concrete, aerated concrete and cement-based renders, mortars and bricks surfaces must be primed using Sika® Primer-3 N applied by brush.
- Before sealing, allow a waiting time of > 30 minutes (< 8 hours).
- Concrete, aerated concrete and cement-based renders, mortars and bricks must be primed using Sika® Primer-3 N. For more details such as application and flash-off times, refer to the most recent Product Data Sheet of the respective pre-treatment product.
- 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.

Note: Primers and activators are adhesion promoters and not an alternative to improve poor preparation/cleaning of the joint surface. Primers also improve the long-term adhesion performance of the sealed joint.

MIXING

1-part ready to use

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

PRODUCT DATA SHEET

Sikasil® C

February 2026, Version 05.01

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Priming

If required, prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid causing puddles at the base of the joint.

Application

Sikasil® C is supplied ready to use. Prepare the end of the foil pack or cartridge, insert into the sealant gun and fit the nozzle. Extrude Sikasil® C into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

As soon as possible after application, the sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish.

Use a compatible tooling agent to smooth the joint surface. 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, hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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