

PRODUCT DATA SHEET

Sikasil® C

SILICONE SEALANT FOR CONSTRUCTION AND SANITARY APPLICATIONS



DESCRIPTION

Sikasil® C is a 1-part, neutral curing, non-corrosive multipurpose elastic joint sealant for sealing many types of joint configurations. It has a primerless application and good adhesion to most construction materials. Provides an elastic and flexible waterproof seal with resistance to UV, fungus and mildew. Movement capability $\pm 25\%$. Internal and external use.

USES

Sealing joints for:

- Glazing
- Sanitary
- Movement and connections

CHARACTERISTICS / ADVANTAGES

- 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

PRODUCT INFORMATION

Composition	Alkoxy silicone
Packaging	300 ml cartridge: 12 cartridges per box 600 ml unipack: 20 unipack per box Please contact our customer service, for information of what packaging sizes are sold in Denmark.
Colour	Please contact our customer service, for information of which colors are sold in Denmark.

PRODUCT DATA SHEET

Sikasil® C

November 2019, Version 03.01

020514030000000020

Shelf life	15 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. Always refer to packaging.		
Density	~1,00 kg/l		(ISO 1183-1)
Product Declaration	EN 15651-1: F EXT-INT 25 LM CC. EN 15651-2: G 25 LM CC. EN 15651-3: S XS1. ISO 11600 F 25 LM. ISO 11600 G 25 LM.		

TECHNICAL INFORMATION

Shore A Hardness	~20 (after 28 d)	(ISO 868)
Secant Tensile Modulus	~0,35 N/mm ² at 100 % elongation (+23 °C)	(ISO 8339)
Elongation at Break	~600 %	(ISO 37)
Elastic Recovery	> 70 %	(ISO 7389)
Tear Propagation Resistance	~3,0 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.	

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	

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., min. 3 °C above dew point temperature	
Curing Rate	~3 mm/24 h (+23 °C / 50 % r.h.)	(CQP 049-2)
Skinning time	~35 min (+23 °C / 50 % r.h.)	(CQP 019-1)

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 and joint durability, the following substrate priming (and/or pre-treatment) procedures must be followed:

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 applied by 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 bonding / 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.

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, 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. For cleaning skin use Sika® Cleaning Wipes-100.

FURTHER INFORMATION

- 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.

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.

PRODUCT DATA SHEET

Sikasil® C

November 2019, Version 03.01
02051403000000020

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.

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.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

Sika Danmark A/S

Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk



PRODUCT DATA SHEET

Sikalil® C

November 2019, Version 03.01
020514030000000020