Sikasil®-C

Neutral curing silicone sealant for construction and sanitary applications

Product Description	Sikasil®-C is a one part neutral curing silicone sealant suitable for indoor and outdoor applications.
Uses	Sikasil®-C is suitable for glazing and weatherproofing applications of glass, metals, painted surfaces, wood, acrylics, polycarbonates, ceramic tiles and for most sanitary applications.
Characteristics / Advantages	■ Provide primerless adhesion to a wide range of substrates ■ Long term resistance to fungus ■ Very good UV and weathering resistance ■ Low odour ■ Non corrosive ■ High elasticity and flexibility

Tests

Approval / Standards	DIN 18 545
	ISO 11600-F-class 25 LM
	ISO 11600-G-class 25 LM

Product Data

Form

Colours	Clear, white, other colours to order
Packaging	300 and 310 ml cartridges

Storage

Storage Conditions / Shelf Life	12 months from date of production if stored in undamaged and unopened original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10 ℃ and +25 ℃.

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Technical Data

Chemical Base	Alcoxy silicone, neutral curing	
Density	~ 1.01 kg/l (colour clear)	(DIN 53 479)
Skinning Time	~ 15 minutes (+23°C / 50% r.h.)	
Curing Rate	~ 2.0 mm/24h (+23°C / 50% r.h.)	
Movement Capability	25%	
Sag Flow	< 2 mm	(DIN EN 27 390)
Service Temperature	-40°C to +150°C	

Mechanical / Physical Properties		
Tensile Strength	~ 0.5 N/mm^2 (+23°C / 50% r.h.)	(ISO 8339)
Tear Strength	~ 4.0 N/mm^2 (+23°C / 50% r.h.)	(DIN 24 method C))
Shore A Hardness	~ 18 (after 28 days)	(ISO 868)
E-Modulus	~ 0.34 N/mm^2 at 100% elongation (+23°C / 50% r.h.)	(ISO 8339)
Elastic Recovery	> 90% (+23°C / 50% r.h.)	(ISO 7389)

System Information

Application Details

Consumption

Joint Design:
The joint width must be designed to suit the movement capability of the sealant. In general the joint width must be > 10 mm and < 35 mm. A width to depth ratio of ~ 2 : 1 must be maintained..

Joint width	10 mm	15 mm	20 mm
Joint depth	6 mm	8 mm	10 mm
Joint length / 310 ml	~ 5 m	~ 2.5 m	~ 1.5 m

Substrate Quality	Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Cement laitance must be removed.
Substrate Preparation / Priming	Refer to Primer Table.

Application Conditions / Limitations

Substrate Temperature	+5°C min. / +40°C max.
Ambient Temperature	+5°C min. / +40°C max.
Substrate Moisture Content	Substrate must be dry.

Application Instructions	
Application Method / Tools	Sikasil®-C is supplied ready to use.
	After suitable joint and substrate preparation, insert Backing Rod to required depth and apply primer if necessary. Insert cartridge into sealant gun and firmly extrude Sikasil®-C into joint making sure that it is full contact with the side of the joint. Fill the joint, avoiding air entrapment. Sikasil®-C should be tooled firmly against joint sides to ensure good adhesion.
	Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft. Smooth joint with smoothing liquid for a perfect sealant surface.
Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be removed mechanically.
Notes on Application / Limitations	Do not use on bituminous substrates, natural rubber, chloropene, EPDM or on building materials which might bleed oils, plastisicers or solvents.
	Do not use in totally confined space because Sikasil®-C requires atmospheric moisture to cure.
	Bleeding can occur on porous substrates such as concrete, marbles, granites and other natural stones. On sensitive substrates, specific pretesting must be carried out.
	Sikasil®-C is not recommended for use in submerged joints or in joints where physical abuse or abrasion are likely to occur. It is also not recommended for structural glazing or insulated glazing and food contact applications.
	Sikasil®-C is not suitable for medical or pharmaceutical uses.

Value Base

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.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related 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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