

# Technical Data Sheet

Version 01/2025

## SilcTec B1 63 (Silikon SF)



### Product Description

Elastic, neutral crosslinking, solvent-free, one-component silicone sealant. Reacts with moisture. MEKO-free, neutral system.

### Standards, tests and specifications

- EN 15651-1: 25LM
- DIN 4102-1: Fire behavior class B1
- DGNB/ÖGNI: Q2 in line 11 & 13
- GISCODE: DSO20



### Product Properties

- Can be used with fire-retardant components such as windows, doors, etc. (observe the requirements of the component manufacturer!).
- suitable for sealing window connection joints in- and outdoors according to ÖNORM B 5320
- not corrosive to metals
- permanently elastic
- waterproof
- fire behavior according DIN 4102-1: class B1 (hardly inflammable)
- suitable for indoor and outdoor use
- Weather, ageing and UV-resistant
- Ready-to-use
- color-stable

## Areas of Application

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Expansion joints, outdoors, weather-stressed joints, sheet metal masking, doors, inner door frames, air conditioning and ventilation systems. Can be used with fire-retardant components such as windows, doors, etc. (observe the requirements of the component manufacturer!).

## Form of Delivery

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Cartridge	300 ml
Packing unit	20 pieces per box

## Substrates

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### Suitable substrates:

plaster, concrete, aerated concrete, masonry, brick, clinker, fiber cement, wood, wood chipboard, lacquered, glazed or impregnated wood, wood fiber boards, aluminum, corrosion-protected metals, copper, zinc, iron, steel, brass, zinc sheet, ceramics, tiles, enamel, glass, many plastics, hard PVC

### Unsuitable substrates:

tar, bitumen-containing substrates, EPDM, PIB, PTFE, PP, PE, gypsum, silicone, mirror backside, lead

## Instructions for Use

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The adhesive surfaces must be clean, dry, free from release agents and firm. Dust, grease, oil and loose parts must be removed before processing (e.g. with AeroTec Iso-Cleaner). Generally non-absorbent, closed-pore substrates should be pretreated with GRUNDIERUNG LiquiTec Grund GP and absorbent, open-pore substrates with LiquiTec Grund OP in order to achieve a best possible adhesion. Allow the primer to evaporate well. Be careful when using a primer as it may stain the substrate.

In any case, a test should be made beforehand. We advise to carry out a suitability test for the large number of substrates, building materials and/or coatings used today, especially for plastics, paintings and powder coatings. The use of a PE round cord as a joint backfill material is recommended to avoid three-point-adhesion. Before beginning, the joint edges should be taped with suitable adhesive tape.

Cut off the cartridge nipple with a sharp knife. Screw the nozzle onto the cartridge and cut it to the desired width. Insert the cartridge into the ejector gun and eject the sealing compound evenly and without any cavities. Spray the sealant with INSEBO smoothing agent before skin formation and smooth it with a joint spatula. Then remove the adhesive tape and any sealant residues before curing.

When handling large quantities in enclosed spaces, fresh air must be provided during the curing time. The sealant is odorless after curing. Store cartridges cool and dry. Higher temperatures shorten shelf life.

## Technical Data

Characteristics	Standard	Value
Density	EN 1183-1	1,2 ± 0,1 g/cm <sup>3</sup>
Shore A hardness	EN ISO 868	approx. 25
Fire behavior	EN 13501-1	class E
Fire behavior	DIN 4102-1	class B1
Skin formation time (normal climate 23/50)		approx. 12 min
Curing (normal climate 23/50, depending on substrate)		approx. 2 mm after 24 h
Permissible total deformation of the joint		25 %
Stability	EN 7390 (no sagging in the joint)	≤ 3 mm
Volume loss	EN 10563	< 10 %
Tension behavior	EN 8339 (E-modulus 100)	< 0,4 N/mm <sup>2</sup>
Elongation at break	EN 8339	250 %
Temperature resistance (cured mass)		-20 to +180 °C
Processing temperature		+5 to +40 °C
Shelf life cartridge (dry, at +5 to +25 °C)		18 months

## Safety Instructions

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Please refer to our safety data sheet and the product label for further information on product safety and handling. Current safety data sheets and further information on our products can be found at [www.insebo.com](http://www.insebo.com).

## Service

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Upon request, our trained sales representatives are always at your disposal.

## Disposal

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For disposal instructions please refer to our safety data sheet and product label.

## Additional Information

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This technical data sheet advises without obligation and guarantee. The mentioned processing instructions have to be adapted to the prevailing conditions. The user is obliged to check the suitability and application by own experiments in order to avoid failures.

All given descriptions, data, ratios, weights, etc. can change without notice and do not represent contractually agreed properties of the product. Existing laws, standards and regulations are to be observed by the recipient of our products in their own responsibility.

Due to environmental influences, such as chemical stress, vapors, UV exposure or high temperatures, color changes can occur. However, other product properties are not affected by these changes.

Due to the large number of possible influences during processing and application, a guarantee of certain properties or suitability for a specific application can not be made, own tests are necessary.

The right to make technical changes is reserved.