Technical Data Sheet

Version 07/2023

Silikon FO

Product Description

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

Product Properties

- very low emission - EMICODE EC1^{plus}
- highest elasticity: EN 15651: 25LM
- tested for food compatibility
- suitable for sealing window connection joints in- and outdoors according to ÖNORM B 5320
- streak-free and abrasion-resistant according to ift-Richtlinie VE-04/2
- permanently elastic
- highly elastic
- stable
- waterproof
- long-term smoothing capability
- ready-to-use
- not corrosive to metals
- fire behavior according to EN 13501-1: class E
- weather resistant
- resistant to aging
- UV resistant
- color stability
- suitable for many wood varnishes
- excellent processability e.g. with glazing
- for gluing and sealing glazing and window joints to the building structure
- suitable for wet areas
- suitable for indoor and outdoor use
- gluing and sealing with the same product
- universally applicable
- can be used throughout the entire construction sector
- very good adhesion on a variety of substrates
- solvent-free
- phthalate-free
- halogen-free

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ID K097040
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INSEBO®
SOLUTIONS THAT MATTER

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Areas of Application

Expansion joints, outdoors, weather-stressed joints, facade construction, window- and construction joints, glazings, window sills, sheet metal masking, connection joints for roof windows, doors, pre-cast walls, inner door frames, roller shutter boxes, air conditioning and ventilation systems, fan housings, plastic construction, repair and reconditioning works.

Form of Delivery

Cartridge	300 ml
Alu bag	400 ml
Alu bag	600 ml
Packing unit	20 pieces per box

Substrates

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, mirror backside, lead

Instructions for Use

The adhesive surfaces must be clean, dry, free from release agents and firm. Dust, grease, oil and loose parts must be removed before processing. Generally non-absorbent, closed-pore substrates should be pretreated with GRUNDIERUNG GP and absorbent, open-pore substrates with GRUNDIERUNG 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. For applications in the area of insulating glass edge bonding, please contact us in advance.

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Technical Data

Characteristics	Standard	Value
Classification according to	EN 15651-1 (facade elements)	25LM
Classification according to	EN 15651-2 (glazing)	25LM
Classification according to	EN 15651-3 (sanitary)	XS1
Classification according to	EN 15651-4 (pedestrian paths)	25LM
Density	EN 1183-1	1,0 ± 0,1 g/cm³
Shore A hardness	EN ISO 868	ca. 23
Fire behavior	EN 13501	class E
French VOC regulation	EN 16516	A+
Skin formation time (normal climate 23/50)		ca. 12 minutes
Curing (normal climate 23/50, depending on substrate)		ca. 2 mm after 24 h
Permissible total deformation of the joint		25 %
Stability	EN 7390 (no sagging in the joint)	≤ 1 mm
Volume loss	EN 10563	≤ 10 %
Tension behavior	EN 8339 (E-modulus 100)	< 0,4 N/mm²
Resilience	EN 7389	> 90 %
Elongation at break	EN 8339	300 %
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
Shelf life Alu bag (dry, at +5 to +25 °C)		24 months

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Safety Instructions

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.

Service

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

Disposal

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

Additional Information

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.

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Test Certificates

Food – Sensory Examination:	**no observable changes found**
Testing institute:	Chemisches Laboratorium Dr. Stegemann
Report:	121060761
Int. PZ-no.:	DM86
GEV-EMICODE	**EC1^{Plus} – very low emission**
Testing institute:	GEV Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.
Report:	392-2022-00512101_G_DE
Int. PZ no.:	DM94
Streaking and abrasion of glazing sealants	**Key figure: m0**
Testing institute:	Ift Rosenheim
Report:	23-001613-PR01
Int. PZ-no.:	DM102

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