

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

SILOXA BC-I is a one-part, neutral cure silicone sealant, that reacts with the atmospheric moisture producing a flexible rubber extremely resistant. It does not contain corrosive or strong smell additives.

SILOXA BC-I preserves all properties of elasticity and adherence with no ageing problems, remaining stable in front of atmospheric agents.

SILOXA BC-I contains a fungicide additive which protects the silicone against fungal and bacterial growth.

MAIN BENEFITS

- Permanently elastic.
- Excellent adhesion to a wide range of substrates without priming.
- Very good weathering, ageing and UV-resistance.
- Anti-mildew protection.
- Odorless.
- Extremely long service life.
- Very easy to apply and tool.
- No staining or colour changes.

PRODUCT CERTIFICATIONS

- SILOXA BC-I meets the following specifications:
UKCA Marking and CE Marking: EN 15651-1: F-EXT-INT-CC
EN 15651-2: G-CC
EN 15651-3: S

FIELDS OF APPLICATION

Perimeter and connection joints for aluminum, wood and PVC carpentry.

Sealing of joints between porous and non-porous substrates, including concrete, masonry, bricks, wood, aluminum (lacquered, anodized, painted, ...), PVC, glass, ceramics and most plastics.

Glazing weather sealing of windows. Sealing of precast concrete wall units.

TYPICAL TECHNICAL DATA

Basis	Neutral oxime silicone
Consistency	Non-slump paste
Specific gravity	Approx. 0,97 g/ml
Tack free time	Approx. 5 minutes (at 23°C; 50% R.H.)
Skin forming time	5-15 minutes (a 23°C; 50% R.H.)
Curing rate	Approx. 3 mm/24 h
Resistance to flow (ISO 7390)	0 mm (at 5°C and 50°C)
Elastic recovery (ISO 7389)	> 85% (at 100% elongation)
Movement capability (ISO 9047)	± 25%
Loss of volume (ISO 10563)	< 7%
Shore A Hardness (ISO 7619-1)	Approx. 17
Application temperature	Between +5°C to +40°C
Service temperature	Between -40°C to +150°C
Tensile properties	
ISO 37 (2 mm thickness, S2 dumbbells, 7 days, 23°C, 50% R.H.)	
E-Modulus 100%	0,30 MPa
Tensile strength	1,00 Mpa
Elongation at break	450%

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. The time until complete curing may be extended at lower temperature, lower humidity or increasing film thickness.

DIRECTIONS FOR USE

Substrates must be clean, dry, and free of dust, grease and other contaminant which may affect the adhesion. Mask off the joint edges.

SILOXA BC-I adheres to most common construction materials without primer. However, a preliminary adhesion test is recommended on every surface. Sometimes, it may be necessary to treat the joint surfaces with a primer to obtain better adhesion performances.

Use the closed cell polyethylene backer foam as a back-up material to limit the sealant joint depth and avoid the sealant to adhere to the joint base. Choose the right backing strip diameter (at least 25% wider than the joint width).

After substrate preparation, apply the sealant evenly with a professional caulking gun. Observe the eventually used primer's open time before filling the joint.

The joint should be tooled and smoothed before skin formation. Press the sealant and smooth it ensuring good contact with the surfaces to seal. Use neutral soapy water as a tooling agent. Remove masking tape. Uncured product may be easily removed with solvents such as isopropyl alcohol or “white spirit”. Cured sealant must be removed mechanically.

REMARKS

Do not use SILOXA BC-I on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents. (e.g., natural rubber, chloroprene, EPDM, ...).

There is no adhesion to PE, PP, PTFE (Teflon®). Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.

SILOXA BC-I cannot be overpainted.

Not intended for structural glazing or laminated glass.

PACKAGING AND COLOURS INFORMATION

SILOXA BC-I is available in 280ml cartridges (25 units/box) and 400ml sausages (25 units/box).

Colours: White and clear.

STORAGE AND SAFETY

The shelf life is 12 months in its unopened original packaging, in dry conditions and protected from direct sunlight, at temperatures between +5°C and +25°C.

Use in well-ventilated areas and avoid skin and eye contact. Keep out of the reach of children.

The information regarding the safety of the product is available on safety data sheet (SDS). Before using the product, we recommend to read carefully the SDS and the safety labels.

Our technical advice on application, whether verbal or written or by tests carried out to our best knowledge, true and accurate, but must be considered only as an indication without compromise, also, for what it concerns possible industrial property rights to others. It does not excuse the user to check beforehand the products supplied by us to verify the suitable procedures and expected results and confirm the disposition of the product's latest technical data issued by the manufacturer. The application and use of our products is beyond our control, for which are of the exclusive responsibility of the user. If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. It is over understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.