

Silcoflex 590

**One-component low modulus alcoxy (neutral) silicon sealant
for indoor and outdoor use**



DESCRIPTION

Silcoflex 590 is a one-component low modulus silicone sealant with neutral crosslinking. Cures at room temperature under the action of atmospheric moisture to provide a permanently flexible silicone elastomer. The product has exceptional characteristics of workability, adhesion to various substrates and allows the creation of an elastic sealant for perimeter finishes, windows and building applications in areas of high humidity, such as bathrooms.

Certified and tested according to:

EN 15651 – 1: Class 25 LM F - EXT - INT - CC

EN 15651 – 2: Class 25 LM G - CC

EN 15651 – 3: Class XS1

ISO 11600 – G, class 25 LM

ISO 11600 – F, class 25 LM – Façade

SNJF Label – Vitrage 25E and Façade 25E

EMICODE EC 1 PLUS

APPLICATION FIELDS

Sealing of joints on wooden, metal and plastic windows and doors. Sealing of joints on walls, facades and metal constructions. Suitable for sealing windows. Suitable for joints in bathroom areas.

FEATURES

- Rapid cross-linking
- Primerless adhesion to most materials
- Not corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar, fibrous concrete
- Contains fungicides, suitable for use in areas of high humidity
- Adheres excellently to glass and metals
- Odorless
- Non sagging

- Excellent resistance to bad weather, UV and aging
- Easy extrusion at low (+ 5 ° C) and high (+ 40 ° C) temperatures
- Flexible at low (-40 ° C) and high (+ 150 ° C) temperatures

TECHNICAL DATA

Aspect	Tixotropic paste, non-sagging
Colour	Various colors (see catalogue)
Chemical nature	Alcoxy curing silicone
Curing mechanism	Moisture curing
Crosslinking speed [mm] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3.0
Shore A (ISO 868)	ca. 22
Specific gravity [g/cm ³] (NPT Method 06) (23°C and 50% RH)	ca. 1,02
Skin time [min] (NPT Method 17) (23°C and 50% RH)	ca. 25
Elastic modulus at 100% [N/mm ²] (ISO 8339)	ca. 0,37
Tensile strength [N/mm ²] (ISO 8339)	ca. 0,7
Elongation at break [%] (ISO 8339)	>300
Joint movement capability [%] (ASTM C920)	± 25
Application temperature [°C]	from +5 to +40
Temperature resistance [°C]	from -40 to +150

APPLICATION

To obtain maximum performance in terms of adhesion, the surfaces concerned must be dry and clean; in particular, degreasing solvents can be used to remove grease. The acetic silicone adheres to most surfaces (anodized aluminum, glass, ceramic, polyester). In the presence of adhesion problems on particular surfaces, it is advisable to consult the manufacturer for the choice of a specific Primer. The product is not over-paintable.

Remove the top part of the threaded top screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and extrude the sealant carefully preventing air entrapment.

Once opened, packs should be used up within a relatively short time. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C.

Tooling and finishing must be carried out within the tack-free time of the sealant. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

SILCOFLEX 590 must not be used for insulating glass applications and not recommended for structural glazing applications, for sealing of aquaria or for longer-term use under water. Not suitable for food processing application; please use instead S-Sil Food, NSF ANSI 51 certified.

CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

Clean the tools used with white spirit. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contact with the skin, remove immediately and wash with soap and water.

PACKAGING

PE-cartridge 300ml:	24 cartridges per box
Sausage 400 ml (white-grey-black)	12 pieces per box
Sausage 600 ml (white-grey)	20 pieces per box

STORAGE AND SHELF LIFE

Silcoflex 590 can be stored for 12 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

GENERAL INFORMATIONS

The information contained in this technical data sheet is to the best of our knowledge correct, being based on our knowledge and experience to date and cannot be used as a guarantee, due to the various different materials present on the market and the fact that the application conditions are not under our direct control and supervision. NPT srl, however, guarantees constant product quality. NPT srl, has the right to modify or up-date this technical data sheet according to requirements. Customers are kindly requested to verify that they are in possession of the latest version.

ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET BEFORE USING THE PRODUCT