

# Silcoflex 599 - Colored

**One-component low modulus alcoxy (neutral) silicon sealant for  
facades and glazing**



## DESCRIPTION

Silcoflex 599 is a one-component low modulus silicone sealant with neutral cross-linking. Cures at room temperature under the action of atmospheric humidity to provide a permanently flexible silicone elastomer with primer-free adhesion to various substrates such as: glass, tiles, ceramic, enamel and clinker, aluminum, steel, zinc, copper, wood and many plastics. The product has exceptional workability for building constructions, glazing and for industrial applications.

### 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 – 4: Class 25 LM PW – EXT – INT - CC  
ISO 11600 – G, class 25 LM – Glazing  
ISO 11600 – F, class 25 LM – Façade  
SNJF Label – Vitrage 25E and Façade 25E  
EMICODE EC 1 PLUS

## APPLICATION FIELDS

Sealing of expansion and connection joints in the construction sector. Sealing of perimeter joints. Sealing of joints between glass and load-bearing structures (frames, crosspieces, uprights). Industrial application as a sealant in the automotive, aeronautical and naval sectors.

## FEATURES

- Rapid cross-linking
- Primerless adhesion to most materials
- Solvent free, with limited volumetric shrinkage during crosslinking
- Not corrosive to metals
- Excellent consistency for professional finishes
- Suitable for alkaline substrates such as concrete, mortar, fibrous concrete
- Matte finish, 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

<b>Aspect</b>	Tixotropic paste, non-sagging
<b>Colour</b>	Various colors (see catalogue)
<b>Chemical nature</b>	Alcoxy curing silicone
<b>Curing mechanism</b>	Moisture curing
<b>Crosslinking speed</b> [mm] (NPT Method 07) (24h - 23°C and 50% RH)	ca. 3.0
<b>Shore A</b> (ISO 868)	ca. 22
<b>Specific gravity</b> [g/cm <sup>3</sup> ] (NPT Method 06) (23°C and 50% RH)	ca. 1,40
<b>Skin time</b> [min] (NPT Method 17) (23°C and 50% RH)	ca. 20
<b>Elastic modulus at 100%</b> [N/mm <sup>2</sup> ] (ISO 8339)	ca. 0.4
<b>Tensile strength</b> [N/mm <sup>2</sup> ] (ISO 8339)	ca. 0.5
<b>Elongation at break</b> [%] (ISO 8339)	250
<b>Joint movement capability</b> [%] (ISO 11600)	± 25
<b>Joint movement capability</b> [%] (ASTM C920)	± 50
<b>Application temperature</b> [°C]	from +5 to +40
<b>Temperature resistance</b> [°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 599 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

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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

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

## STORAGE AND SHELF LIFE

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Silcoflex 599 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

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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