

SILCOFLEX 589

One-component, low-modulus silicone sealant with acetic cross-linking acetic



DESCRIPTION

Silcoflex 589 is a one-component acetoxy silicone sealant. It cures at room temperature under the action of atmospheric moisture to provide a permanently flexible silicone elastomer with exceptional adhesion, weather resistance and high cross-linking speed for construction applications.

Certified and tested according to:

EN 15651 - 1: Tipo F - EXT - INT - CC
EN 15651 - 2: Tipo G - CC
EN 15651 - 3: Tipo S
ISO 11600 - G, classe 25 LM - Vetratura
DIN 18545-2 - Classe E (Institute for Window Technology)
EMICODE EC 1 PLUS

AREAS OF APPLICATION

Bonding and sealing joints between glass and structure (frames, transoms, uprights) both inside and outside. Specifically formulated for sealing glass with glass, glass with aluminium, anodised or powder-coated aluminium and stainless steel. Suitable for sign installation, for fixing and sealing of air conditioning and for refrigeration systems.

FEATURES

- 100% silicone, solvent-free
- Fast curing and skin formation
- Excellent adhesion to glass and metals
- Resistant to mould and bacteria
- Non-sagging
- Excellent weathering, UV and ageing resistance
- Easy extrusion at low (+5°C) and high (+40°C) temperatures
- Flexible at low (-40°C) and high (+100°C) temperatures

TECHNICAL DATA

Appearance	Thixotropic paste, non-sagging
Colour	Transparent, white, black
Chemical Nature	Acetoxy curing silicone
polymerization	Moisture curing
Curing through volume [mm] (NPT Metodo 07) (24h - 23°C and 50% UR)	Ca. 3.0
Shore A (ISO 868)	Ca. 22
Specific gravity [g/cm ³] (NPT Metodo 06) (23°C and 50% UR)	Ca. 0.99
Skin time [min] (NPT Metodo 17) (23°C and 50% UR)	Ca. 15
Elastic modulus 100% [N/mm ²] (ISO 8339)	Ca. 0.4
Tensile strength N/mm ² (ISO 8339)	Ca. 0.7
Elongation at break N/mm ² (ISO 34)	Ca. 250
Joint movement capability [%] (ISO 8339)	± 25 with respect to the width of the joint
Application temperature [°C]	From +5 to +40
Temperature Resistance [°C]	From -40 to +150 in the short term up to +120

APPLICATION

For maximum adhesion performance, the surfaces concerned must be dry and clean; in particular, degreasing solvents may be used to remove grease. Acetic silicone adheres to most surfaces (anodised aluminium, glass, ceramics, polyester). If there are 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 threaded top from the plastic nozzle, screw on the nozzle and cut it at an angle to the desired bead thickness and profile. Insert the cartridge into a manual or pneumatic gun (preferably one with a telescopic piston) and extrude the sealant carefully, avoiding air entrapment. Once opened, the cartridges must be used within a relatively short time. The optimum working temperature for both substrate and sealant is between 15°C and 25°C. Smoothing and finishing must be carried out within the open time (skin formation time) of the sealant. Since the system is hygro-hardening, allow sufficient exposure to air. Bonded elements may require additional sealing or support during the curing period. Silcoflex 589 must not be used for double-glazing assembly and is not recommended for applications in insulating or structural glazing, for sealing aquariums

or for long-term use under water. Not suitable for applications with food contact, in this case use S-Sil Food, ANSI 51 certified.

CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

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

PACKAGING

Polyethylene cartridges 300ml - 24 pieces per box

STORAGE AND SHELF LIFE

Silcoflex 589 can be stored for 24 months in the original packaging. Storage temperature between 10°C and 25°C in a cool, dry place. Keep away from moisture, heat sources and direct sunlight.

GENERAL INFORMATION

The information contained in this data sheet represents the best of our knowledge. However, this document cannot be regarded as a guarantee that the product will be used and applied in accordance with the instructions provided. Successful application is beyond our control and depends on many factors. We accept no responsibility for the misuse of the product, the recommendations in this document should be considered general guidelines. If any doubts remain, please carry out preliminary tests. NPT Srl, reserves the right to modify and update the data sheet without prior notice. Customers are kindly requested to check that they have the latest version.

ALWAYS CONSULT THE SAFETY DATA SHEET BEFORE USING THE PRODUCT