

## Sealants and Adhesives

# NEUTRAL LIFE

**Fossil-free neutral silicone sealant with low modulus of elasticity, mould resistant.**



- Eco-friendly formulation
- Certification according to the criteria of ecological sustainability
- Very low emission of volatile organic compounds
- Waterproof and UV resistant, for indoor and outdoor applications



### APPLICATION AREAS

Neutral is ideal for working with maximum safety and professionalism while respecting the environment, protecting our health and preserving future energy resources. It is a neutral silicone sealant, resistant to mould, for the creation of expansion joints in façades, prefabrication, sheet metal elements, window/door frames, glazing and health facilities. Neutral is ideal for:

- sealing on façades and the building envelope in general, indoors and outdoors, on both smooth and glassy substrates;
- sealing between glass and window (metal, pre-painted, wooden or plastic);
- sealing of the connection joints between frame and wall (masonry, concrete, plaster).
- waterproof, resistant to mould, sealing of connection joints in bathrooms (bathtubs, shower enclosures, sinks) and SPA areas.

Its characteristics allow the sealing to absorb the movements transmitted by atmospheric, vibrational and mechanical stresses. Neutral life elastically connects the sides of the joint, absorbing, without detachment, the movement of the adjacent construction elements, originating from differential thermo-hygrometric expansion or settlement. It therefore guarantees a perfect seal over time to water and air, reducing heat loss, water infiltration and preventing the formation of mould.

## MAXIMUM ATTAINABLE THICKNESSES

Minimum width = 6 mm. For widths up to 10 mm, the depth must be equal to the width of the joint and in any case not less than 6 mm. For widths from 10 to 20 mm, the depth must be at least 10 mm. For widths over 20, mm the depth must be at least half the width

## FEATURES

Neutral<sup>life</sup> is a very pure neutral silicone sealant, based on raw materials coming from natural sources and certified according to environmental sustainability criteria. It hardens by reaction with air humidity. The presence, in the formulation, of an antimicrobial and anti-algae agent, makes it suitable for use in air conditioning systems and in health facilities: the product is resistant to boiling water and washing with chemically aggressive detergents, thus contributing to the hygiene of surfaces. Thanks to the neutral cross-linking, it does not develop unpleasant odours during application, does not release acid or basic substances that may corrode metal substrates and does not affect paints. It has an excellent adhesion both on porous (masonry, concrete, plaster, wood) and non-porous (metal, plastic, glass, enamelled and porcelain surfaces) substrates provided that they are dry, clean and consistent. In case of use on materials of doubtful nature, use Primer Silicone. Because of its low modulus of elasticity, it is suitable for the elastic sealing of expansion joints with a maximum working elongation of 25%. It guarantees high resistance to UV rays, weather, water stagnation and mould; it does not crumble, does not reduce its initial volume and keeps its elasticity even at low temperatures.

## WARNINGS

Neutral is not suitable for structural bonding. It is not overpaintable. It is not suitable for marble or natural stone substrates. In these cases use Silicone Universal or Hybrid LM.

## INSTRUCTIONS FOR USE

1. The sides of the joint must be clean, degreased and dry. With porous supports it is recommended to treat beforehand with Silicone Primer. In deep expansion joints fill in with rigid expanded profiles, before sealing
2. Stretch an adhesive tape along the sides of the joint.
3. Insert the cartridge into the gun, open it, screw the nozzle and cut the tip so that it opens sufficiently.
4. Inject plenty of sealant.
5. Smooth with a construction trowel moistened with Smooth within 5 minutes after its application by exerting a certain pressure in order to eliminate air pockets.
6. Remove the adhesive tape immediately after smoothing.

## Tools cleaning

Tools cleaning in the plastic status of the sealant using solvents; after hardening only mechanically.

## TECHNICAL SPECIFICATIONS

| PARAMETER AND TEST METHOD                                       | VALUE                  |
|---|------------------------|
| Density (ISO 1183-1)  | 1,03 g/ml              |
| Application temperature   | from +5 °C to +40 °C   |
| Skin-over time (MIT 33*)  | 25 min.                |
| Extrusion rate – mass flow                                      | 200 g/min              |
| Skin-over rate from the outside to the inside at 23°C (MIT 32*) | 3 mm in 24 h           |
| Operating temperature   | From -30 °C to +150 °C |
| Shore A hardness (ISO 868)                                      | Shore A: 24            |
| Tensile strength (EN ISO 8339/A)                                | > 300%                 |
| Tensile strength at break (EN ISO 8339/A)                       | 0,7 N/mm <sup>2</sup>  |
| 100% modulus of elasticity (EN ISO 8339/A)                      | 0,38 N/mm <sup>2</sup> |
| Tear strenght (ISO 34 – C)                                      | 4,6                    |
| Maximum operating elongation (ISO 11600)                        | 25%                    |

|                           |           |
|---------------------------|-----------|
| Resistance to acids       | excellent |
| Resistance to bases       | excellent |
| Odour after cross-linking | None      |

\* Torggler's Internal Methods are available on request.

|                |                          |
|----------------|--------------------------|
| Packaging size | 24x310 ml                |
| Color          | Grey, Transparent, White |
| Packaging      | cartridge                |
| Pallet         | 60 cardboards            |

## CONSUMPTION

| Indicative consumption table |                              |                                       |
|------------------------------|------------------------------|---------------------------------------|
| Joint width x depth (mm)     | Consumption per linear meter | Linear meters made with one cartridge |
| 6x6                          | 36 ml                        | 8,7                                   |
| 8x8                          | 64 ml                        | 4,9                                   |
| 10x10                        | 100 ml                       | 3,1                                   |
| 15x10                        | 150 ml                       | 2,1                                   |
| 20x10                        | 200 ml                       | 1,5                                   |

## STORAGE

Neutral must be stored in a dry and cool environment. Under these conditions, storage stability is at least 18 months. Cartridges that are not completely used can be stored for about 3 months if closed tightly.

## CERTIFICATIONS

Neutral is certified as a non-structural sealant:

- for façade elements for indoor and outdoor use (also suitable for use in cold climates) according to EN 15651-1: FEXT/INT-CC – 25 LM
- for glazing (also suitable for use in cold climates) according to EN 15651-2: G-CC – 25 LM
- for healthcare applications according to EN 15651-3: XS1


It complies with UNI 11673-1, "Installation of windows and doors – Part 1: Requirements and verification criteria of design". Because of its very low content of volatile organic compounds, it is EC1 Plus certified according to GEV Emicode



|  |  |                       |   |
|--|--|-----------------------|---|
| Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marleno (BZ)<br>DoP n° 0164/21<br>EN 15651-1:2012<br>EN 15651-2:2012<br>EN 15651-3:2012<br>NB n° 1213  |  |                       |   |
| EN 15651-1:2012: Sealants for facade for exterior/interior application also used in joints in cold climate areas (F-EXT/INT-CC – 25 LM)<br>EN 15651-2:2012: Sealants for joints in glazing application also used in joints in cold climate areas (G-CC 25 LM)<br>EN 15651-3:2012: Sealants for joints for non-structural use in sanitary areas (S Class XS1) |  |                       |   |
| Reaction to fire   |  | E                     | EN 15651-1:2012<br>EN 15651-2:2012<br>EN 15651-3:2012 |
| Release of chemicals dangerous to the environment and health   |  | NPD                   |   |
| Durability   |  | Declared test results |   |
| Water tightness and air tightness  | Resistance to flow   | ≤ 3 mm                | EN 15651-1:2012<br>EN 15651-2:2012                    |
|  | Loss of volume   | ≤ 10%                 |   |
|  | Loss of volume   | ≤ 20%                 |   |
|  | Tensile properties (i.e. elongation) at maintained extension after water immersion | NF                    | EN 15651-1:2012<br>EN 15651-3:2012                    |
|  | Tensile properties at maintained extension at -30°C                                | NF                    | EN 15651-1:2012<br>EN 15651-2:2012                    |
|  | Tensile properties (i.e. secant modulus) at -30°C                                  | ≤ 0,9 MPa             |   |
|  | Adhesion/cohesion properties after exposure to heat, water and artificial light    | NF                    | EN 15651-2:2012                                       |
|  | Elastic recovery   | ≥ 60%                 | EN 15651-2:2012                                       |
| Microbiological growth   |  | 0                     | EN 15651-3:2012                                       |

#### LEGEND FOR CLASSIFICATION ACCORDING TO EN 15651

|         |   |
|---------|---|
| F       | Sealant for non-structural joints for the building trade, on facades. (F = facade elements) |
| INT     | Sealant for internal use only.  |
| EXT-INT | Sealant for internal and external use.  |
| CC      | Sealant tested for cold climates. (CC = cold climate - testing done at -30 °C)              |
| G       | Sealant for non-structural joints on glazing and door and window frames. (G = glazing)      |
| S       | Sealant for non-structural joints in bathroom installations. (S = sanitary joints)          |
| XS      | Sealant for joints in bathroom installations with improved performance.                     |
| PW      | Sealant for non-structural joints on pedestrian walkways. (PW = pedestrian walkways)        |



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