

Torggler

Sealants and Adhesives

NEUTRAL

Transparent, neutral-curing silicone sealant for corner joints and glass.



- Low modulus of elasticity
- High ageing resistance to UV radiation and weathering
- Indoor and outdoor use
- High tightness
- Meko Free formulation



APPLICATION AREAS

Silicone Neutral is successfully used in seals subject to differentiated movements between the glazing and the facade as it elastically connects the window or door to the wall and absorbs, without detaching, the movement of the confining construction members caused by thermo-hygrometric dilations or atmospheric stresses both vibrational and mechanical. It thus guarantees a long-lasting perfect seal against water and air, and reduces heat loss. Neutral is compliant with UNI 11673-1, "Fitting doors and windows Part 1: project verification requirements and criteria", and is therefore the ideal silicone-based sealant not only for aluminium but also for wood or PVC windows.

MAXIMUM ATTAINABLE THICKNESSES

Sizing of the joint

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

FEATURES

Silicone Neutral has an insuperable resistance to aging, so much so that even in joints that are 20 years old there are no traces of surface hairline cracks and flaking, in spite of prolonged exposure to ultraviolet rays and atmospheric agents. It adheres perfectly to a great variety of substrates, especially non-porous, but also to concrete and wood, and guarantees permanent elasticity and a perfect seal even without primer. Thanks to its neutral cross-linking skin-over, it does not emit unpleasant odours during application, and releases no acid or base substances that might corrode metal substrates, and does not attack paints. Silicone Neutral is classified as a non-structural sealant for glazing (type G) in compliance with EN 15651-2.

WARNINGS

Silicone Neutral is not suitable for structural bonding. Not suitable for marble or natural stone substrates. In this case use Silicone Marble or Universal. Silicone Neutral is not advised for use in sanitary environments such as bathrooms, kitchens, pools, shower booths etc. In these case Silicone Window & Sanitary is preferable, or Universal, with the anti-fungi and bacteriostatic additives that make them particularly resistant to moulds.

INSTRUCTIONS FOR USE

1. The sides of the joint must be clean, degreased and dry. With porous substrates it is recommended to first treat with Silicon Primer.
2. Apply adhesive tape along the sides of the joint.
3. Insert the pre-form.
4. Extrude an abundant quantity of sealant
5. Smooth off with a damp paint scraper within 5 minutes of application, exerting enough pressure to remove any air bubbles.
6. Remove the adhesive tape immediately after smoothing.

Cleaning of tools

While the sealant is in the plastic state use solvents; following setting clean only mechanically.

TECHNICAL SPECIFICATIONS

PARAMETER AND TEST METHOD	VALUE
Density (ISO 1183-1)	1,02 g/ml
Application temperature	from +5 °C to +40 °C
Skin-over time (MIT 33*)	approx. 20 minutes
Hardening rate from the outside to the inside at 23 °C (MIT 32*)	approx. 4,0 mm in 24h
Operating temperature	from -50 °C to +150 °C
Surface hardness Shore A (DIN 53505)	approx. 20
Elongation at break (DIN 53504 – Punch S3)	860 %
Tensile strength at break (DIN 53504 – Punch S3)	1,17 N/mm ²
Modulus of elasticity at 100% (DIN 53504 – Punch S3)	0,28 N/mm ²
Stretching to breaking point (EN ISO 8339/A Glass support-G/AI)	170 %
Tensile strength at break (EN ISO 8339/A Glass support– G, A)	0,38 N/mm ²
Modulus of elasticity at 100% (EN ISO 8339/A Glass support– G, A)	0,31 N/mm ²
Maximum operating elongation	20%
Acid resistance	Excellent
Base resistance	Excellent
Odour after curing	None


* Torggler Internal Methods (MIT) are available on request.

COVERAGE GUIDE TABLE		
JOINT WIDTH X DEPTH (MM)	QUANTITY USED PER LINEAR METRE	LINEAR METRES COVERED 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
Packaging	cartridge, drum, foil bag	
Packaging size	20x600 ml, 24x310 ml, 20 l	
Pallet	36 cardboards, 64 cardboards	
Color	Transparent	

STORAGE

Neutral must be stored in a cool, dry place. Stored in these conditions the product will keep for at least 12 months. Partly used cartridges can be stored for approx. 3 months provided they are tightly closed.

CERTIFICATIONS

			
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Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marlengo (BZ) DoP n° 0057/14 EN 15651-1:2012 EN 15651-2:2012 NB n° 1292			
EN 15651-1:2012: Sealants for façade for joints in exterior/interior applications also used in cold climate areas (F-EXT/INT-CC – 25 LM) EN 15651-2:2012: Sealants for joints for glazing applications also used in cold climate areas (G-CC 20 LM)			
Reaction to fire		E	EN 15651-1:2012 EN 15651-2:2012
Release of chemical dangerous to the environment and health		NPD	
Durability		Pass	
Water tightness and air tightness	Resistance to flow	≤ 3 mm	
	Loss of volume	≤ 10%	EN 15651-1:2012
	Tensile properties at maintained extension after water immersion at 23°C	NF	

	Tensile properties at maintained extension after water immersion at -30°C	NF	EN 15651-1:2012 EN 15651-2:2012
	Tensile properties (secant modulus) at -30°C	≤ 0,9 MPa	
	Adhesion/cohesion properties after exposure of heat, water and artificial light	NF	EN 15651-2:2012
	Elastic recovery	≥60%	EN 15651-2:2012

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)

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 20.07.2021.