

# Torggler

## Sealants

# WINDOW METALLIC

Neutral silicone sealant with metallic effect for glazing and window/door frames.



- UV and weather-resistant
- Low modulus of elasticity
- Indoor and outdoor use
- 3 colours available



### APPLICATION AREAS

Silicone Window Metallic is ideal for:

- sealing between glass and window (metal, pre-painted, wooden or plastic);
- waterproof sealing of the connection joints between frame and wall (masonry, concrete, plaster).
- Sealing between painted and unpainted sheet metal elements.

Its characteristics are suitable to allow the sealings to absorb the movements transmitted to the frames and glazing of windows and doors by atmospheric, vibrational and mechanical stresses. Silicone Window Metallic elastically connects the window and door frame to the masonry work, 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.

### MAXIMUM ATTAINABLE THICKNESSES

#### Joint sizing

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

Silicone Window Metallic is a neutral silicone sealant with low modulus of elasticity. It is resistant to UV and weather, ideal for use in glazing and window/door frames. It complies with UNI 11673-1, "Installation of windows and doors – Part 1: Requirements and verification criteria of design". 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 excellent adhesion both on porous (masonry, concrete, plaster, wood) and non-porous (metal, plastic, glass, enamelled and porcelain surfaces) substrates. The presence of metallic powders in the formulation makes it a perfect match for metal profiles with a metallic effect, camouflaging the joint. Silicone Window Metallic is classified according to EN 15651 as non-structural sealant for façades (type F) and for glazing (type G).

## WARNINGS

Silicone Window Metallic is not suitable for structural bonding. It is not suitable for marble or natural stone substrates. In these cases use Universal Silicone.

## 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	Method	Value
Density	ISO 1183-1	1,04 g/ml
Application temperature		+5 °C to +40 °C
Surface cross-linking time	MIT 33*	40 minutes
Hardening speed from outside to inside at 23 °C	MT 32*	2,6 mm in 24 h
Operating temperature		-30 °C to +150 °C
Surface hardness	ISO 868	Shore A: max = 30 / 15" =17
Volume variation	EN ISO 10563	6 %
Resistance to flow	EN ISO 7390	0,0 mm
Tensile strength	DIN 53504 – Punch S3	650 %
Tensile strength at break	DIN 53504 – Punch S3	0,7 N/mm <sup>2</sup>
100% modulus of elasticity	DIN 53504 – Punch S3	0,3 N/mm <sup>2</sup>
Tensile strength	EN ISO 8339/A – G/Al	220 %
Tensile strength at break	EN ISO 8339/A – G/Al	0,30 N/mm <sup>2</sup>
100% modulus of elasticity	EN ISO 8339/A – G/Al	0,21 N/mm <sup>2</sup>
Elastic recovery	EN ISO 7389/B – G/Al	> 70%
Maximum operating elongation	ISO 11600	20%
Resistance to acids		excellent
Resistance to bases		excellent

Odour after cross-linking	none
Color	342 Gold, 390 Dark brown, 393 Bronze
Packaging	cartridge
Packaging size	24x310 ml
Pallet	64 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

Silicone Window Metallic must be stored in a dry and cool environment. Under these conditions, storage stability is at least 12 months. Cartridges that are not completely used can be stored for about 3 months if closed tightly.

## CERTIFICATIONS

		
Torggler S.r.l., Via Verande 1/A, I – 39012 Merano (BZ) 20 – EN 15651-1:2012 – DoP n° 058/14 NB n° 1292		
Silicone Window Metallic: Sealant for glazing F-EXT/INT – CC 20 LM Conditioning: ISO 8339/A Substrate: Al		
Reacton to fire		NPD
Release of dangerous substances		NPD
Water tightness and air tightness	Resistance to flow	≤ 3 mm

	Loss of volume	≤ 10%
	Tensile properties at maintained extension after exposure to heat, water and artificial light	NF
	Tensile properties (secant modulus at -30 °C)	≤ 0,9 MPa
	Tensile properties at maintained extension at -30 °C	NF
Durability		Passed

#### Legend of 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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