

# Torggler

## Silicone Sealant

# WINDOW & SANITARY

### PROFESSIONAL

Neutral silicone sealant resistant to mould for the creation of expansion joints in façades and floors, in window/door frames, glazing and health facilities.

- UV resistant.
- Low modulus of elasticity
- Indoor and outdoor use
- 14 colours available

#### APPLICATION AREAS

Silicone Window & Sanitary is ideal for:

- 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 joints in bathrooms (bathtubs, shower enclosures, sinks), SPA areas and swimming pools, even on the floor.

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 & Sanitary elastically connects the window and door frame to the masonry work, absorbing, without detachment, the movement of the adjacent construction elements, originating from differential thermohygrometric expansion or settlement. It therefore guarantees a perfect seal over time to water and air, reducing heat loss and preventing the formation of mould.



## CHARACTERISTICS

Silicone Window & Sanitary is a neutral silicone sealant with low modulus of elasticity, UV and weather resistant, ideal for use in window/door frames. It complies with UNI 11673-1, "Installation of windows and doors - Part 1: Requirements and verification criteria of design". The presence, in the formulation, of an antimicrobial and anti-algae agent, makes it suitable for use 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 excellent adhesion both on porous (masonry, concrete, plaster, wood) and non-porous (metal, plastic, glass, enamelled and porcelain surfaces) substrates. Silicone Window & Sanitary is classified according to UNI EN 15651 as a non-structural sealant for façades (type F), for glazing (type G), for use in healthcare applications (type XS) and for applications on floors subject to intense treading (type PW). The product is certified as EC 1 Plus by GEV in terms of very low emissions of volatile organic compounds.

## 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.

## WARNINGS

Silicone Window & Sanitary 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.

## STORAGE

Window & Sanitary 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.

## PACKAGES

Box of 24 cartridges with 310 ml content.

## CERTIFICATIONS

Certified as EC1 Plus by GEV.

The performance declarations (DoP) are available on the website [www.torggler.com](http://www.torggler.com).

### CLASSIFICATION LEGEND ACCORDING TO EN 15651

F	Sealant for non-structural joints for façade applications. (F = façade elements)
INT	Sealant for indoor use only.
EXT-INT	Sealant for indoor and outdoor use.
CC	Sealant tested for cold climates. (CC = cold climate - tests performed at -30 °C)
G	Sealant for non-structural joints for use in glazing and window and door frames. (G = glazing)
S	Sealant for non-structural joints for sanitary applications. (S = sanitary joints)
XS	Sealant for non-structural joints for sanitary applications with improved performance.
PW	Sealant for non-structural joints for use in pedestrian walkways. (PW = pedestrian walkways)

# TECHNICAL SPECIFICATIONS

PARAMETER AND TEST METHOD	GLOSSY W&S	MATT W&S
Colours	transparent, metallic grey, metallic brown, metallic green, metallic stainless steel	white, white RAL 9010, ivory, grey, anthracite, black, walnut brown, brick red, green RAL 6005
Density (ISO 1183-1)	1.03 g/ml	1.3 g/ml
Application temperature	from +5 °C to +40 °C	from +5 °C to +40 °C
Surface cross-linking time (MIT 33*)	26 minutes	30 minutes
Hardening speed from outside to inside at 23 °C (MIT 32*)	2 mm in 24 h	1.5 mm in 24 h
Operating temperature	from -30 °C to +150 °C	from -30 °C to +150 °C
Surface hardness (ISO 868)	Shore A: max = 30 / 15"= 15	Shore A: max = 40 / 15"= 20
Volume change (EN ISO 10563)	4%	4%
Flow resistance (EN ISO 7390)	0.0 mm	0.0 mm
Tensile strength (DIN 53504-Punch S3)	750%	500%
Tensile strength at break (DIN 53504-Punch S3)	0.9 N/mm <sup>2</sup>	0.8 N/mm <sup>2</sup>
100% modulus of elasticity (DIN 53504-Punch S3)	0.3 N/mm <sup>2</sup>	0.3 N/mm <sup>2</sup>
Elongation at break (EN ISO 8339/A-G/AI)	270%	300%
Tensile strength at break (EN ISO 8339/A-G/AI)	0,3 N/mm <sup>2</sup>	0,35 N/mm <sup>2</sup>
100% Modulus of elasticity (EN ISO 8339/A-G/AI)	0,22 N/mm <sup>2</sup>	0,33 N/mm <sup>2</sup>
Elastic recovery (EN ISO 7389/B-G/AI)	> 80%	> 80%
Maximum operating elongation (ISO 11600)	20%	25%
Resistance to acids	excellent	excellent
Resistance to bases	excellent	excellent
Odour after cross-linking	none	none

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

JOINT WIDTH X DEPTH (MM)	INDICATIVE CONSUMPTION TABLE	
	CONSUMPTION PER LINEAR METRE	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

## THE COLOUR RANGE

	Transparent 000		Metallic grey 250
	White 105		Metallic brown 395
	White RAL 9010 101		Metallic green 560
	Ivory RAL 1013 140		Stainless steel 225 (to order)
	Light grey 210		
	Anthracite 280		
	Black 290		
	Walnut brown 376		
	Brick red 440		
	Green RAL 6005 550		

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. The Torggler company reserves the right to modify, replace and/or delete the items, as well as to change the product data in this brochure 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](http://www.torggler.com). Version 07.2020.



Torggler S.r.l., Via Verande 1/A – 39012 Merano (BZ)  
20  
DoP no. 101/18  
NB no. 1213/1292  
EN 15651-1:2017 / EN 15651-2:2017 / EN 15651-3:2017 / EN 15651-4:2017

Silicone Window & Sanitary (coloured): Non-structural sealant for façade applications (for use in cold climates), for glazing applications (for use in cold climates), for joints in healthcare facilities and pedestrian walkways (for use in cold climates)

EN 15651-1 F-EXT/INT-CC 25 LM / EN 15651-2 G-CC 20 LM / EN 15651-3 XS1 /  
EN 15651-4 PW-EXT/INT-CC 25 LM

Curing: ISO 8340/A

Substrate: G<sub>up</sub>, AL<sub>up</sub>, M1<sub>p</sub> (Silicone Primer)

Reaction to fire:		E
Release of chemicals hazardous to the environment and to health		NPD
Water and air tightness	Loss of volume	≤ 10%
	Flow resistance	≤ 3 mm
	Adhesion/cohesion properties after exposure to heat, water and artificial light	NF at 60% of elongation
	Elastic recovery	≥ 60% to 60% of elongation
	Tensile properties under extended conditions maintained at -30 °C	NF
	Tensile properties (secant modulus at -30 °C)	≤ 0.9 N/mm <sup>2</sup>
	Tensile properties under extended conditions maintained after immersion in water	NF
	Tear resistance	NF
	Adhesion/cohesion properties under extensive conditions and maintained after 28 days in water immersion	NF Variation of the secant modulus ≤ 50%
	Adhesion/cohesion properties under extensive conditions and maintained after 28 days in water immersion	NF
Microbiological growth		1
Durability		Test passed



Torggler S.r.l., Via Verande 1/A – 39012 Merano (BZ)  
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DoP no. 101B/18  
NB no. 1292  
EN 15651-1:2017 / EN 15651-2:2017 / EN 15651-3:2017 / EN 15651-4:2017

Silicone Window & Sanitary (transparent): Non-structural sealant for façade applications (for use in cold climates), for glazing applications (for use in cold climates), for joints in healthcare facilities and pedestrian walkways (for use in cold climates)

EN 15651-1 F-EXT/INT-CC 20 LM / EN 15651-2 G-CC 20 LM / EN 15651-3 XS1 / EN 15651-4 PW-EXT/INT-CC 20 LM

Curing: ISO 8340/A

Substrate: G<sub>up</sub>, AL<sub>up</sub>, M1<sub>p</sub> (Silicone Primer)

Reaction to fire:		E
Release of chemicals hazardous to the environment and to health		NPD
Water and air tightness	Loss of volume	≤ 10%
	Flow resistance	≤ 3 mm
	Adhesion/cohesion properties after exposure to heat, water and artificial light	NF at 60% of elongation
	Elastic recovery	≥ 60% to 60% of elongation
	Tensile properties under extended conditions maintained at -30 °C	NF
	Tensile properties (secant modulus at -30 °C)	≤ 0.9 N/mm <sup>2</sup>
	Tensile properties under extended conditions maintained after immersion in water	NF
	Tear resistance	NF
	Adhesion/cohesion properties under extensive conditions and maintained after 28 days in water immersion	NF Variation of the secant modulus ≤ 50%
	Adhesion/cohesion properties under extensive conditions and maintained after 28 days in water immersion	NF
Microbiological growth		
Durability		