



## Sealants

# UNIVERSAL

**Neutral curing silicone sealant with anti-mould agent, for door and window frames, sanitary use and applications on marble and natural stone.**



- Stain-resistant
- High resistance to UV rays
- Colour compatible with Torggler Tile Grouts
- 30 colours



### APPLICATION AREAS

Universal is ideal for:

- Seals between glass and frame (metal, pre-painted, wood or plastic);
- Joint seals for connections between frame and wall (masonry, concrete, plaster).
- Joint sealing for internal and external facade parts.
- Waterproof seals, also mould-resistant, on the connection joints in sanitary environments (bathrooms, tubs, shower booths, wash basins, SPA environments and pools).
- Seals on marble and natural stone.

### MAXIMUM ATTAINABLE THICKNESSES

#### Sizing of the joints

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

Universal is a neutral curing silicone sealant for use in bathroom installations, and is formulated for use on marble and natural stone substrates as it prevents the onset of the rings caused by the organic plasticisers contained in standard silicone sealants. With its exceptional resistance to UV rays, atmospheric agents and aging and with its excellent adhesive qualities as well as its great elasticity, it is also suitable for use in the sector of door and window frames (both inside and outside), and as a sealant for the perimeter joint between the frame and the wall as well as for the sealing of the joint between the glass and fixture frame (in compliance with UNI 11673-1, "Fitting door and window frames – Part 1: requirements and criteria for verification of design"). Furthermore the low modulus of elasticity means Universal can be used as a sealant between components utilised for both internal and external facades. The polymerisation process does not produce acidic or basic substances that can attack metal substrates. Universal is classified as a non-structural sealant for facade elements for external and internal use (F-EXT/INT in compliance with EN 15651-1), for glazing (G according to EN 15651-2) and for sanitary uses (XS according to EN 15651-3).

## 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. With deep dilation joints pad with rigid shaped foam elements before sealing.
2. Apply adhesive tape along the sides of the joint.
3. Insert the cartridge in the application gun, open it, screw on the spout and cut off the tip to obtain a sufficient aperture.
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.

### Observations

Universal is not suitable for structural bonding. Universal does not adhere to Teflon, polyethylene, polypropylene, as well as on damp substrates. Universal cannot be painted over.

## 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. 2,4 mm in 24 h
Operating temperature	from -30 °C to +150 °C
Surface hardness (ISO 868)	Shore A: max = 25 /15'' = 18
Elongation at break (DIN 53504 – Punch S3)	approx. 700 %
Modulus of elasticity at 100% (DIN 53504 – Punch S3)	approx. 0,4 N/mm <sup>2</sup>
Tensile strength at break (DIN 53504 – Punch S3)	approx. 1,00 N/mm <sup>2</sup>
Elongation at break (EN ISO 8339/A)	130 %
Modulus of elasticity at 100% (DIN 53504 -Punch S3)	0,35 N/mm <sup>2</sup>
Tensile strength at break (EN ISO 8339/A)	0,4 N/mm <sup>2</sup>
Elastic recovery (EN ISO 7389/B)	> 90 %
Creep resistance (EN ISO 7390)	0,0 mm
Maximum operating elongation (ISO 11600)	25 %

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	1,6
30x15	450 ml	0,7


Color	000 Transparent, 100 White, 150 Jasmin, 200 Manhattan, 205 Pearl grey, 220 Cement grey, 230 Grey, 260 Anthracite, 290 Black, 310 Vanilla, 320 Bahama, 330 Beige, 338 Oak, 340 Hazelnut, 345 Douglas, 350 Brown, 360 Chocolate, 370 Terracotta, 372 Cherry brown, 377 Walnut, 380 Chestnut
Packaging	cartridge
Packaging size	12x310 ml
Pallet	116 cardboards

## STORAGE

Universal 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

The declarations of performance (DoP) are available on request.

	
Torggler Chimica S.p.A., Via Verande 1/A, I – 39012 Merano (BZ) 14 DoP n° 072/14 NB n° 0432 EN 15651-1:2012 / EN 15651-2:2012 / EN 15651-3:2012	

Silicone Universal: Sealant for facade for interior and exterior application ; Sealant for glazing ; Sealant for joints in sanitary areas EN 15651-1: F-EXT/INT EN 15651-2: G EN 15651-3: XS Conditioning: ISO 8339/A Substrate: M1 p (Primer Silicon), G		
Reacton to fire		F
Release of dangerous substances		NPD
Water tightness and air tightness	Resistance to flow	≤ 5 mm
	Loss of volume	≥ 45 %
	Tensile properties at maintained extension at 23 °C	NF
	Tensile properties at maintained extension after immersion in water at 23 °C	NF
	Elastic recovery	≥ 40 %
	Tensile properties after exposure to heat, water and artificial light	NF
Microbiological growth		0
Durability		Passed

#### 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](http://www.torggler.com). Version 16.07.2021.