

# Torggler

## Sealants

# ACETIC LIFE

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



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



## APPLICATION AREAS

Acetic<sup>life</sup> is ideal for working with maximum safety and professionalism while respecting the environment, protecting our health and preserving present and future energy resources. Acetic is an acetic silicone sealant resistant to mould for the creation of expansion joints in façades, in window/door frames, glazing and health facilities. It is ideal for:

- sealing on façades and the building envelope in general, indoors and outdoors, preferably on non-absorbent, smooth and glassy substrates;
- sealing between glass and window frames (metal, pre-painted, wooden or plastic);
- waterproof and resistant to mould, sealing of joints in bathrooms (baths, shower cubicles, sinks) and SPA areas.

Its characteristics allow the sealing to absorb the movements transmitted by atmospheric, vibrational and mechanical stresses. Acetic 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 half the width.

## FEATURES

Acetic<sup>life</sup> is a very pure acetic cross-linking silicone sealant, based on raw materials from natural sources and certified according to environmental sustainability criteria. It hardens very quickly 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. Its fast hardening and high adhesion features make it suitable for sealing and static bonding of glass and ceramic elements in various applications: windows, glazing, glass cement, profiled glass, artistic objects, solar collectors, enamelled and porcelain surfaces. It is not compatible with porous or alkaline surfaces such as marble, concrete, fibre cement or mortar, as the acetic acid released during vulcanization could attack them. Contact with metals such as copper, zinc, lead or brass leads to corrosion. If used 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%. Its resistance to ageing is superior to any other non-silicone resin-based sealant: it guarantees high resistance to UV rays, atmospheric agents, stagnant water and mould; it does not crumble, does not reduce its initial volume and maintains its elasticity even at low temperatures.

## WARNINGS

Acetic 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 solid, clean, degreased and dry. It is advisable to treat in advance with Primer Silicone in case of porous substrates. In deep expansion joints, insert a Backfill Sealant of suitable diameter 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)	1,02 g/ml
Application temperature	from +5 °C to +40 °C
Skin-over time (MIT 33*)	20 min.
Extrusion rate (MIT 30)	40 g / 15 s
Skin-over rate from the outside to the inside at 23°C (MIT 32*)	2,2 mm in 24 h
Operating temperature	from -30 °C to +150 °C
Shore A hardness (ISO 868)	Shore A: 20
Volume variation (EN ISO 10563)	3,5 %
Resistance to flow (EN ISO 7390)	< 2 mm
Tensile strength (DIN 53504 – Punch S3A)	640%
Tensile strength at break (DIN 53504 – Punch S3A)	1,1 N/mm <sup>2</sup>

100% modulus of elasticity (DIN 53504 – Punch S3A)	0,23 N/mm <sup>2</sup>
Tensile strength (EN ISO 8339/A)	> 250%
Tensile strength at break (EN ISO 8339/A)	0,6 N/mm <sup>2</sup>
100% modulus of elasticity (EN ISO 8339/A)	0,35 N/mm <sup>2</sup>
Tear resistance (ISO 34 – 1B)	8,8 N/mm
Elastic recovery (EN ISO 7389/A)	>98 %
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

Acetic must be stored in a dry and cool environment. Under these conditions, storage stability is at least 20 months. Cartridges that are not completely used can be stored for about 3 months if closed tightly.

## CERTIFICATIONS

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



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Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marlengo (BZ)  
DoP n° 0163/21  
EN 15651-1:2012  
EN 15651-2:2012  
EN 15651-3:2012  
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)  
EN 15651-2:2012: Sealants for joints in glazing application also used in joints in cold climate areas (G-CC 25 LM)  
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 EN 15651-2:2012 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 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 EN 15651-3:2012
	Tensile properties at maintained extension at -30°C	NF	EN 15651-1:2012 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%	
	Tensile properties after water immersion at +23°C	≥25%	EN 15651-3:2012
Microbiological growth		1	

#### 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 01.12.2021.