

Torggler

Sealants and Adhesives

HY 2.0

Single-component adhesive-sealant based on hybrid polymers, with mould resistant formulation, for overpaintable elastic bonding and sealing of connection joints, for general construction and industry applications. It cures by reaction with atmospheric humidity.



APPLICATION AREAS

Making of joints between construction elements, either vertical and horizontal. Once cured it can be painted and ensures good resistance to weather. Excellent adhesion on smooth and porous surfaces: glass, rigid plastics, metal substrates, plasterboard, plasters, masonry, wood, fibre cement, etc. It does not corrode metals, does not reduce its initial volume and keeps its elasticity even at low temperatures without stressing the sides of the joint. In the transparent, crystal clear version, it is particularly suited for invisible bonding with high mechanical strength.

WARNINGS

- Do not apply at temperatures below 0 °C.
- Do not use in constantly wet environments.
- Prolonged exposure to UV rays can cause yellowing.
- When applied to plastic substrates or on any material of doubtful origin, check the adhesion of HY 2.0 with preliminary tests.

- Clean tools with paper and alcohol while HY 2.0 is still fresh and mechanically after curing.

INSTRUCTIONS FOR USE

The sides of the joint must be solid, clean, degreased and compact. The sealing must be at least 6 x 6 mm in size. Over 1 cm in width, the ratio between width and depth must be 2:1. Insert the Synthetic plugging cord to ensure correct proportion of the sealing and prevent the joint to adhere to the bottom. Protect the edges of the joint with selfadhesive paper tape. Cut the nozzle according to a diameter proportional to the size of the joint. Inject an excess amount of HY 2.0. Smooth out with a spatula before the surface film formation begins. Apply a certain pressure in order to obtain a void-free filling and complete adhesion of the sealant on the sides of the joint. Remove the protective tape immediately. When used as an adhesive, apply HY 2.0 along parallel lines on clean and compact surfaces and join the elements by compression; fix the bodies externally to support their weight during the first 24 hours.

TECHNICAL SPECIFICATIONS

PARAMETER AND TEST METHOD	VALUE	
	CRYSTAL CLEAR	WHITE, GREY
Density (UNI 8490 – Part 2)	1,057 g/ml	1,60 g/ml
Extrusion speed (MIT 30)	40,79 g	27,73 g
Application temperature	+5 °C to +30 °C	+5 °C to +30 °C
Skin-over time (MIT 33)	10 minutes	12 minutes
Hardening rate from the outside to the inside at 23 °C and 50 % rel. h.	4 mm / 24 hours	2-3 mm / 24 hours
Stability (EN ISO 7390)	≤ 3 mm	≤ 3 mm
Operating temperature	-30 °C to +80 °C	-30 °C to +80 °C
Shore A hardness (ISO 868)	35 ± 5	57 ± 5
Volume variation (MIT 057)	3,5 %	3,2 %
Mass variation (MIT 057)	2,6 %	1,8 %
Elongation at break (DIN 53504 – S2)	300 %	260 %
Tensile strength at break (DIN 53504 – S2)	2,4 MPa	2,7 MPa
Modulus of elasticity at 100% (DIN 53504 – S2)	1,8 MPa	0,9 MPa
Maximum operating elongation (ISO 11600)	7,5 %	20 %
Color	Crystal clear	
Packaging	cartridge, foil bag	
Packaging size	12x290 ml, 20x600 ml	
Pallet	100 cartboards, 36 cardboards, 60 cardboards	

CONSUMPTION

Indicative yield in linear meters of a sealant cartridge = $V / (L \times D)$.

V = Cartridge content in ml

L = Sealing width in mm

D = Sealing depth in mm


STORAGE

Store in a dry place, protected from frost and heat. It will keep in its original packaging closed and protected from UV rays:

- at least 12 months in case of crystal clear formulation
- at least 18 months in case of white and grey formulation

CERTIFICATIONS

Reference Norm	Crystal clear	White, Grey
EN 15651-1: 2012	F-EXT/INT: Sealant for non-structural joints for façade applications. Indoor and outdoor use.	F-EXT/INT: Sealant for non-structural joints for façade applications. Indoor and outdoor use.
EN 15651-3: 2012	S1: Sealant for non-structural joints for health facilities applications.	XS2: Sealant for non-structural joints for health facilities applications.
Emissions VOC – GEV Emission Code	EC1 Plus	

			
20			
Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marleno (BZ) DoP n° 0142/20 EN 15651-1:2012 EN 15651-3:2012 NB n° 1292			
EN 15651-1:2012: Sealants for façade for exterior/interior applications (F-EXT/INT-7,5P) EN 15651-3:2012: Sealants for non-structural joints used in sanitary areas (S1)			
Fire reaction	F	EN 15651-1:2012 EN 15651-3:2012	
Release of chemical dangerous to the environment and health	NPD		
Durability	Pass		
Water and air tightness	Flow resistance	≤ 3 mm	EN 15651-1:2012
	Loss of volume	≤ 10%	
	Tensile properties after water immersion at 23°C	≥ 25%	
Microbiological growth	1	EN 15651-3:2012	



20

Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marlengo (BZ)
DoP n° 0143/20
EN 15651-1:2012
EN 15651-3:2012
NB n° 1292

EN 15651-1:2012: Sealants for façade for exterior/interior applications (F-EXT/INT 20 HM)
EN 15651-3:2012: Sealants for non-structural joints used in sanitary areas (XS2)

Fire reaction		E	EN 15651-1:2012 EN 15651-3:2012
Release of chemical dangerous to the environment and health		NPD	
Durability		Pass	
Water and air tightness	Flow resistance	≤ 3 mm	EN 15651-1:2012
	Loss of volume	≤ 10%	
	Tensile properties at maintained extension after water immersion at 23°C	NF	EN 15651-1:2012
Microbiological growth		2	EN 15651-3:2012

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 16.08.2021.