

# Torggler

## Sealants

# PU HM EDILIA

High performance polyurethane adhesive/sealer for façades and floors.



- Excellent resistance to weather and ageing
- High modulus of elasticity
- It bonds and seals simultaneously
- Paintable
- Indoor and outdoor use, even on damp substrates



### APPLICATION AREAS

PU HM Edilia is ideal for sealing horizontal and vertical connection joints and expansion joints when installing any element that forms a building envelope or when assembling prefabricated concrete panels. In fact its characteristics are suitable to allow the sealings to absorb the movements transmitted to the building by atmospheric, vibrational and mechanical stresses. PU HM Edilia 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. Paintability after hardening ensures that the façades have a uniform, uninterrupted final appearance. Due to its high abrasion resistance, it is also used as a sealant for creating floor expansion joints on both tiled and concrete surfaces. It is also suitable for use as an adhesive due to its high modulus of elasticity and high adhesive strength on a wide range of materials.

### 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

PU HM Edilia is a single-component, thixotropic, polyurethane adhesive/sealant with high modulus of elasticity for paintable elastic sealing of expansion joints with a maximum working elongation of 25%. It does not develop unpleasant odours during application, it hardens by reaction with the humidity in the air, it does not release acid or basic substances that can corrode metal substrates and it does not affect paints. It has excellent adhesion both on porous (masonry, concrete, plaster, wood) and non-porous (painted/not painted metal, plastic, glass, enamelled and porcelain surfaces) substrates, even wet surfaces provided they are clean and consistent. Once hardened, it provides high adhesive strength, permanent flexibility, good resistance to UV radiation, weather and water stagnation. After hardening it is overpaintable: in any case, it is recommended to perform preliminary tests with the chosen paints. According to EN 15651-1 PU HM Edilia is classified as a non-structural sealant for façades F EXT-INT and according to EN 15651-4 as a non-structural sealant for pedestrian walkways PW EXT-INT.

## WARNINGS

Prior to use, test the paints for compatibility. Normally paints are stiffer, so if the joint is subjected to tensile or compressive stress, the paint on the joint may crack.

## INSTRUCTIONS FOR USE

1. The sides of the joint must be clean, degreased and compact. In deep expansion joints, insert a cord of suitable diameter before sealing.
2. Stretch an adhesive tape along the sides of the joint.
3. Insert the cartridge/bag 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 acetone or solvents; after hardening only mechanically.

## TECHNICAL SPECIFICATIONS

Base	Polyurethane-based
Density (EN ISO 1183-1)	1,30 g/ml
Application temperature	+5 °C to +40 °C
Surface cross-linking time (MIT 33*)	50 minutes
Extrusion speed (MIT 30*)	approx. 84 g
Hardening speed from outside to inside at 23 °C (MT 32*)	2,3 mm in 24 h
Operating temperature	-40 °C to +90 °C
Surface hardness (EN ISO 868)	Shore A = 38
Mass variation (MIT 57)	7 %
Volume variation (MIT 57)	11 %
Tensile strength (DIN 53504 – S3)	270 %
Tensile strength at break (DIN 53504 – S3)	1,7 N/mm <sup>2</sup>
100% modulus of elasticity (DIN 53504 – S3)	0,7 N/mm <sup>2</sup>
Tensile strength (EN ISO 8339/A – cls)	200 %
Tensile strength at break (EN ISO 8339/A – cls)	0,70 N/mm <sup>2</sup>
100% modulus of elasticity (EN ISO 8339/A – cls)	0,65 N/mm <sup>2</sup>
Tear resistance (ISO 34-1/B)	9 N/mm <sup>2</sup>
Maximum operating elongation (ISO 11600)	25% joint width

Resistance to acids	limited
Resistance to bases	good
Odour after cross-linking	odourless

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

Color	Black, Grey, White
Packaging	cartridge, foil bag
Packaging size	12x310 ml, 20x600 ml
Pallet	125 cardboards, 50 cardboards


## CONSUMPTION

Consumption guide table			
Joint width x depth (mm)	Consumption per linear meter	Linear meters with one cartridge	Linear meters with one cartridge
6x6	36 ml	8,6	16,6
8x8	64 ml	4,8	9,3
10x10	100 ml	3,1	6
15x10	150 ml	2,1	5
20x10	200 ml	1,5	3

## STORAGE

PU HM Edilia must be stored in a dry and cool environment between 5 and 25 °C, away from humidity, direct sunlight and heat sources. Under these conditions and in the original sealed packaging, its storage stability is at least 12 months.

## CERTIFICATIONS


20
Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marlengo (BZ) DoP n° 0156/20 EN 15651-1:2012 EN 15651-4:2012 NB n° 2538
EN 15651-1:2012: Sealants for façade for exterior/interior applications (F-EXT/INT – 25 LM) EN 15651-4:2012: Sealants for non-structural movement joints in floors for exterior/interior applications (PW-EXT/INT – 25 LM)

Reaction to fire		E	EN 15651-1:2012 EN 15651-4:2012
Release of chemical dangerous to the environment and health		NPD	
Durability		Pass	
Water and air tightness	Loss of volume	≤ 10%	EN 15651-1:2012
	Tensile properties at maintained extension at 23°C	NF	
	Tensile properties at maintained extension after water immersion at 23°C	NF	EN 15651-1:2012
	Resistance to flow	≤ 3 mm	
	Tear resistance	NF	EN 15651-4:2012
	Tensile properties at maintained extension after 28 days water immersion	NF	
Tensile properties at maintained extension after 28 days salt water immersion	NF		

#### 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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