

Torggler

Hybrid Adhesive

STRONG

SPECIAL

Super strong, hybrid polymer adhesive with high initial tack. No need of external mechanical fixture during hardening.

- Suitable for substrates subject to vibrations
- High mechanical resistance
- Resistant to atmospheric agents
- Adheres without primer even on damp substrates

FEATURES

Hybrid Adhesive Strong is a high-quality professional adhesive with a very strong initial adhesion which hardens by reaction with moisture, forming a permanently elastic mass. The product does not shrink or swell. It is free of isocyanates, solvents and silicones, does not produce substances which can corrode metal and does not emit unpleasant odours.

APPLICATION RANGE

Hybrid Adhesive General Use has been specifically formulated as a universal adhesive for bonding many construction materials, porous and non-porous, such as: concrete, bricks, glazed and ceramic surfaces, glass, mirrors, PVC, hard plastic materials (HPL), metals in general (copper, zinc, aluminium, alloys, stainless steel), plasterboard, concrete fibre panels, wood.

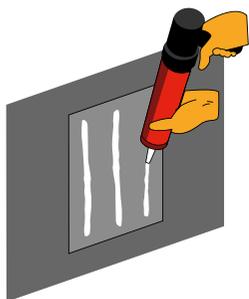


INSTRUCTIONS FOR USE

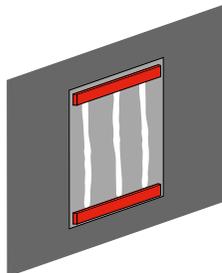
Application temperature of both the environment and the materials can vary from +5 to +40 °C. Substrates must be solid, clean and free of oils or dust.



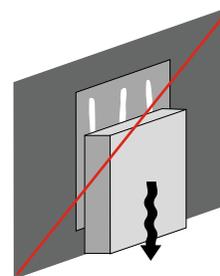
- 1.** Place the cartridge in the application gun, using possibly a reinforced transmission gun and insert the nozzle. Apply the product with the V-nozzle positioned up and away from application direction.



- 2.** Apply the adhesive in parallel vertical lines at a distance of about 10-20 cm (depends on the weight of the to be bonded element). During the extrusion the gun must be held in a perpendicular position in relation to the substrate, so that the product is on his base 8 mm wide.



- 3.** Place the materials in position and press forcefully so that the adhesive has a thickness of at least 2-3 mm. To improve the result plastic spacers should be used. Do not spot-apply the product.



- 4.** Owing to its very strong initial adhesion, it normally needs no external mechanical fixture during hardening (for bonding particularly heavy elements are advised). In any case carry out preliminary tests for adhesion.

CLEANING

While the material is in the plastic state use solvents; following setting clean only mechanically. For further information contact Torggler technical assistance.

OBSERVATIONS

Hybrid Adhesive Strong is not suitable for: PE, PP, PMMA, PTFE, polycarbonate, soft plastic materials, neoprene and bituminous surfaces.

Do not use in contact with chlorine (swimming pools).

It is not suitable for use as a sealant: for connection joints Hybrid Adhesive General Use is preferred; in the case of dilation joints, however, we recommend use of a silicone-based sealant with a low modulus of elasticity, such as Silicone Low Modulus.

TECHNICAL SPECIFICATIONS

PARAMETER	REFERENCE STANDARD	VALUE
Base		hybrid polymers
Density	ISO 1183-1	1,6 g/ml
Application temperature		from +5 °C to +40 °C
Skin-over time	MIT 33*	5-10 minutes
Hardening rate from the outside to the inside at 23 °C	MIT 32*	approx. 2 - 3 mm/24 h
Operating temperature		from -40 °C to +90 °C
Shore A hardness	ISO 868	55
Elongation at break	DIN 53504 S2	300%
Modulus of elasticity at 100%	DIN 53504 S2	1,4 N/mm ²
Failure load	DIN 53504 S2	2,2 N/mm ²
Extrusion speed	MIT 030*	approx. 1 g
Initial shear strength	EN 12004-2 point 4	1,16 N/mm ²
Shear adhesion strength after water immersion	EN 12004-2 point 4	0,6 N/mm ²
Shear adhesion strength after action of heat	EN 12004-2 point 4	1,21 N/mm ²
Mass variation	MIT 057*	2%
Volume variation	MIT 057*	4%
Creep resistance	ISO 7390	< 2 mm
Frost resistance during transport		down to -15 °C

* The Torggler Internal Methods (MIT) are available on request.

STORAGE

Hybrid Adhesive Strong must be stored in a shaded place at between +5° and +25 °C. Stored in these conditions the sealed product will keep for at least 18 months.

PACKAGING

290 ml cartridges

COLOUR RANGE

White

Hybrid Adhesive Strong is overpaintable few days after application with water-based paint. In any case we recommend carrying out preliminary compatibility tests; once the suitability of the paint has been ascertained, before proceeding with painting we suggest lightly sanding both the joint and the surfaces along the flanks.

To the best of our knowledge the information given in this document is true and accurate. However, since we have no direct control over the actual conditions of use, our recommendations and suggestions are provided as a guide only and do not constitute a guarantee. If you have any doubts we recommend that you test the product before use or contact our specialists for further advice. Torggler Chimica S.p.A. reserves the right to change, substitute or delete items or otherwise make variations to the product data in this document without prior notice. It is possible therefore that the information given in this document is no longer valid. This document substitutes the previous version. Version 09.2018