

Z.POLY WOOD - Z.POLY WOOD TIXO

PRODUCT DESCRIPTION

Modified silane polymer adhesive, one-component liquid, free of volatile parts.

PRODUCT CHARACTERISTICS

It hardens due to the effect of humidity forming a semi-rigid lasting **water resistant (Grade D3-EN 204)** and **heat resistant ($\geq 10 \text{ N/mm}^2$ at 80°C according to Watt 91)**; it does not swell.

In the standard version in cans it is easy to apply with a notched trowel, while in the "TIXO" cartridge version it comes as a non-drip paste for vertical applications or when filling characteristics are required.

TYPICAL APPLICATIONS (professional use)

- Suitable for high cohesion bonding of rigid or semi-rigid materials, both indoors with frequent and short exposures to water and/or high humidity, and in exteriors not exposed directly to the elements (**according to Grade D3-EN 204**).
- Wood-to-wood bonding including painted, cement, bricks, plaster and plastic laminate.
- In the production of sandwich panels bonding of expanded polystyrene, polyurethane and PVC to stainless steel sheets (galvanised after verification), aluminium, anodised aluminium, fiberglass, polystyrene (rigid PVC after verification).
- Production of doors, windows, outdoor furniture, panels. Furniture, components for home furnishings and commercial environments, bathroom and kitchen furniture and general interior furnishings for vehicles.



LIMITATIONS

- Applications in water continuous immersion have to be double checked with Fratelli Zucchini S.p.A. Technical Area.
- Not suitable for joints in swimming pools and adjacent areas that are in continuous contact with pool water.
- It must not be used for items that come in contact with food, or with materials that ooze oily substances or plasticisers.
- Furthermore, it must not be applied in completely enclosed spaces, with no exposure to atmospheric humidity.
- Do not use in extreme temperature conditions, or on damp, frozen, contaminated surfaces.
- Do not use on excessively acidic or basic substrates.
- Not suitable for use on **natural copper**.
- In consideration of the wide and varied type of materials on the market, before proceeding with bonding in production, verify that the result obtained meets the characteristics required for the product.
- For any application not listed in this document please contact our Technical Service.

TECHNICAL DATA

	Z.POLY WOOD	Z.POLY WOOD TIXO
Composition:	solvent-free modified silane polyether prepolymer	
Setting system:	reaction with humidity	
Application temperature:	+5°C / +35°C	
Solids content:	100%	
Specific weight:	1,4 kg/dm ³	1,48 kg/dm ³
Viscosity at 23°C (Brookfield spindle 5 at 5 rpm):	10.000 - 50.000 mPa.s *	high viscose non-drip paste
Open time:	5 - 20 minuti	
Dwell time under pressure (according to the application):	1 - 6 hours approx.	
Final bonding strength after 7 days (EN205):	$\geq 10 \text{ N/mm}^2$ (100Kg/cm ²)	
Resistance to temperature (EN 14257 -Watt91):	$\geq 10 \text{ N/mm}^2$ at 80°C	

* Values valid as product supply specification upon leaving the factory.



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APPROVALS

Z.POLY WOOD has been tested and classified by **EUROFINS** according to:

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation	A +	Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
Italian CAM Edilizia	Pass	Decree 11 October 2017 (GU n.259 del 6-11-2017)
ABG	Pass	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes (ABG), Entwurf 31.08.2017/August 2018 (AgBB)
Belgian Regulation	Pass	Royal decree of May 2014 (C-2014/24239)
EMICODE *	EC 1 PLUS	apr-19
Indoor Air Comfort®	Pass	Indoor Air Comfort 6.0 of February 2017
Indoor Air Comfort GOLD®	Pass	Indoor Air Comfort GOLD 6.0 of February 2017
Blue Angel (DE-UZ 123)	Pass	DE-UZ 123 for "Low-Emission Sealants for Interior Use", (January 2019)
BREEAM International	Exemplary Level	BREEAM International New Construction v2.0 (2016)
BREEAM® NOR	Pass	BREEAM-NOR New Construction v1.2 (2019)
LEED	Pass	v 4.1 July 2019

* This test report does not alone entitle to use the protected trademark label EMICODE.

METHOD OF USE

The surfaces must be clean and dry, in particular free of greases, oils and surface oxidations.

Sand if necessary and then remove residual dust with air (and **solvent ST 121** on plastics and metals).

The expanded materials and the fiberglass must be well cured and free from residual by-products.

Spread **Z.POLY WOOD** with a spatula or roller onto one of the parts to be joined in a thin film of adhesive in sufficient quantity to wet the other part, generally 200 g/m².

On wood and porous surfaces, it is generally recommended to spread the amount indicated onto both parts.

For small surfaces and in any case in which it is preferable to use non-dripping adhesive paste **Z.POLY WOOD** with the special fine jet head onto one of the parts to be joined.

If you use **Z.POLY WOOD** also for bonding large surfaces such as in the case of wood panels or wall laminate, the adhesive can be applied in a discontinuous manner to parallel lines 30 - 40 cm apart, with a section suitable to fill any irregularities.

Where it is necessary to completely cover the surfaces, it is recommended to use **Z.POLY WOOD** with a spatula or roller as indicated above.

When bonding materials with no surface moisture or large surfaces between non-porous materials, such as in the case of coupling between sheet and expanded materials in the production of insulating panels, we recommend spraying water (approx. 2 - 6 g/m²) onto the **Z.POLY WOOD** adhesive before joining the parts.

Alternatively, the use of the **boosterized version** in a 10: 1 ratio is recommended, for a complete polymerization of the product in about 2 hours.

Perform the joining within 5 to 20 minutes of coating according to the environmental conditions (use short times with high humidity and temperature or if the procedure is used with water spray) exerting an adequate pressure of at least 6 kg/cm² for wood-to-wood bonding or to compact and resistant materials.

In the case of sandwich panels with expanded material, it is sufficient to ensure a smooth contact between the two faces, usually by pressing at 0,3 - 0,7 Kg/cm².

Pressure must be maintained from 1 to 6 hours before handling, depending on the environmental conditions, type and shape of the materials, dimensions of the bonding, while the complete hardening of the adhesive will take place within 24 hours, also according to the environmental conditions and the materials used.

If the latter and the type of coupling allow it without incurring deformations due to different thermal expansion.

It is possible to hot press the bonding up to 50°C reducing the handling time even by a few minutes.

Average consumption: 150 - 300 gr/m².

Cleaning equipment: use solvent **ST 512** on wet liquid adhesive.

Hardened glue can only be removed mechanically.

SAFETY AND HEALTH

See Safety Data Sheet.

STORAGE STABILITY

- **Z.POLY WOOD** 9 months from the date of manufacture.
- **Z.POLY WOOD TIXO** 12 months from the date of manufacture.

Store the sealed product in the original packaging, in a dry place at a temperature between +5°C and +25°C.

The product may become more viscous during storage.



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PACKAGING

Article	Code	Colour	Packaging	pcs./box
Z.Poly Wood	1004631	grey - beige	1 Kg. can	6
Z.Poly Wood TIXO	1004698	grey - beige	290 ml. cartridge	12

