



Wood Adhesives

TEMPO WB 500

Technical Data Sheet

Reviewed: 06.06.2015



DESCRIPTION

No 1 professional choice for outdoor applications

TEMPO WB 500 is a waterbased PVA dispersion wood adhesive formulated for high demand bonding. Offers rapid and high strength bonding as well as excellent resistance to humidity conditions. It is very suitable for outdoor applications. Dries transparent. Complies to specification **EN 203/D3**.

ADVANTAGES

- Excellent bonding strength
- Excellent water resistance D3
- Suitable for exterior use
- Temperature resistance
- Resistance to ageing
- Dries transparent
- Environmentally friendly

APPLICATIONS

- It is suitable for exterior timber constructions such as wooden pergolas, door and window wooden frames etc.
- Bonding of hard and soft wood, MDF, formica, soft- and hardboard, synthetic resin board, chipboard, veneers which are exposed to high humidity conditions.
- Bonding of furniture where high resistance to humidity and ageing are required.
- Bonding of other materials on chipboard, wood and board, such as cardboard, paper or textile-backed PVC cloth.

INSTRUCTIONS FOR USE

1. All surfaces must be dry and clean from dust and grease.
2. Apply the adhesive with a brush, roller, spatula or directly from the nozzle.
3. Apply an even film of adhesive to one surface only.
4. Allow the adhesive to soak into the parts for some minutes.
5. Assemble the joint whilst adhesive is still wet and apply light pressure.

6. The use of clamps or press is suggested. The pressure must then be sufficiently high and evenly applied to the entire surface.

CLEANING

Clean all equipment immediately after use with water.

REMARKS

- Application temperature: 18°C - 20°C
- Do not use below +12°C
- Ideal moisture content of the wood: 8-12%
- Significant irregularities reduce the contact surface and therefore will lead to unsatisfactory bonding results.

COVERAGE

150 - 200 g /m² depending on surface porosity and condition

TECHNICAL CHARACTERISTICS

Consistency: Thick paste

Colour: White

Base: Polyvinyl acetate

Dry film: Transparent

Odour: Slight

PH: 3 ± 0,2 MVPF 07

Solids: 52 ± 1% MVPF 01

Specific gravity: 1,1 gr /dm³ MVPF 18

Viscosity: 15000 ± 3000 mPa.s MVPF 02

Minimum film formation temperature: +3°C UNI 8490-14

Average particles size: 0,4 ± 3,0 µm MVANS 20

Freeze resistance stability: >5 cycles UNI8490-13

Initial bonding: 30 minutes (20°C)

Pressing: application of adhesive on both sides at a rate of approximately 150gr/m²

Pressing condition: 0,5+1,0mm²

Pressing time: 30 – 90 minutes

The joints obtained by using TEMPO WB 500 show an excellent resistance to static loads. Moreover the good penetration of the dispersion into substrates and the excellent cohesive strength of the adhesive enable the making of bonded joints that, under shear stress in compression, show a breaking of the wood itself.

Final bonding: Subsequent processing of the bonded parts is possible after 3-5hours. Final strength is achieved after approximately 24 hours at 20°C.

Application temperature: 10°C - 35°C

STORAGE

Products should be stored in a dry and cool place at a temperature of 5°C - 35°C, away from sources of ignition. Protect from humidity and direct sunlight.

SHELF LIFE

12 months from the production date in the above mentioned storage conditions. The product should remain in the original unopened packaging bearing the manufacturer's batch number.

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PACKAGING

Plastic bottles 200gr, 750gr

Plastic containers: 1kg, 5kg, 14kg, 32kg

PACKAGING	CODE	BARCODE
Plastic bottle 200gr	01030	5204094010296
Plastic bottle 750gr	01023	5204094010234
Plastic container 1Kg	1030	5204094010302
Plastic container 5Kg	01024	5204094010241
Plastic container 14Kg	01029	5204094010289
Plastic container 32Kg	01025	5204094010258

HEALTH & SAFETY INFORMATION

P101: If medical advice is needed, have product container or label at hand **P102:** Keep out of reach of children **P103:** Read label before use **P501:** Dispose of the contents/containers in accordance with the current legislation on waste treatment

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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