



65

χρόνια

σεβασμό στον μάστορα

δομικά υλικά

construction materials

Technical Specifications

Date of issue: 19/11/2014

Version Number: 1th

Atlacoll wp10

Waterproof fast setting transparent wood glue.



N/mm². In shipbuilding, Atlacoll WP10 is used for carpentry work inside boats. Additionally, it is suitable for bonding cork and polystyrene (expanded or extruded) to concrete, wood, plaster, and brick.

Properties and Advantages

- **Strong Bonding:** Ensures excellent adhesive strength with high resistance to shocks, mechanical stresses, and temperature, in line with D3 classification requirements.
- **Moisture and Temperature Resistant:** Exhibits exceptional durability in wet conditions and under thermal loads, as per EN 204 D3 specifications.
- **Fast Drying:** Provides quick and stable bonding, allowing immediate continuation of work.
- **Transparent after Drying:** Guarantees no staining on the wood surface, preserving its natural appearance.
- **Environmentally Friendly:** Free of solvents and harmful chemicals, making it safe for users and the environment.
- **Aging Protection:** The adhesive maintains its durability over time, ensuring long-term effectiveness in your applications.
- **Elastic and Ideal for Large Wooden Surfaces Using a Thermal Press.**

Description

Atlacoll WP10 is a high-quality, fast-setting, elastic, waterproof, viscous wood adhesive with excellent moisture resistance. It is specially designed for bonding hard and soft wood constructions for both external and internal use, when they are exposed to moisture, rain, frost, and other adverse weather conditions. Classified as a D3 water-resistant adhesive according to EN204 standards, its environmentally friendly formula is solvent-free and provides transparent bonding once dried. Wooden parts bonded with Atlacoll WP10 exhibit excellent resistance to static loads. Its outstanding penetration properties along with its cohesive strength generate powerful bonding (11 N/mm²). In shear tests, the wood itself breaks before the adhesive bond fails.

Application

Ideal for wood bonding in external but also internal structures such as garden furniture, pergolas, windows, doors wooden parquet floors, as well as materials like MDF, particleboard, and plywood. It is recommended for applications requiring high moisture resistance, such as bathrooms, kitchens and outdoor wood constructions. Additionally, it is used for laminating hard plastic sheets (HPL, Formica, Duropal, Resopal) onto wooden surfaces, as well as for bonding wood panels and perimeter bonding of laminate floors. It can also be applied to veneer or drywall. Due to its high elasticity, it is ideal for bonding large wooden surfaces using a thermal press. Atlacoll WP10 provides strong adhesion on hard and soft woods, with a bonding strength of 11



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Technical Characteristics

Composition:	Viscous cross-linking dispersion
Odor:	Odorless, user and environment friendly
Color:	White turns transparent when drying
Viscosity:	65 ± 5 Poise (20°C)
Density:	1,05 + 0,05 Kg/Lt (ISO 2811.01, 20°C)
Application temperature:	From 5°C to +35°C
Press Resistance Temperature:	Up to 115°C for 130min (ISO 2811.01, 20°C)
Adhesion strength:	≥ 10 N/mm ² after 7 days (according to EN 204)
Moisture resistance:	Very good
Classification According to EN 204:	D3
Flammable:	No
Working Time at 23°C and 50% Relative Humidity:	5 minutes
Drying Time at 23°C and 50% Relative Humidity:	24 hours
Base:	Polyvinyl acetate
pH:	3 ± 0.2 (Test Method MVPF07)
Solids:	52 ± 1% (Test Method MVPF 01)
Minimum Film Formation Temperature:	+3°C (Test Method UNI 8490-14)
Granulometry:	0.4 ± 3.0 μm (Test Method MVANS 20)
Stability in Freeze-Thaw Cycles:	> 5 cycles (Test Method UNI 8490-13)
Initial Bonding:	30 minutes (20°C)
Pressing:	Apply glue to both surfaces at 150 g/m ² , pressure 0.5-1.0 N/mm ²
Pressing Time:	60-90 minutes for non-heated press
Coverage:	50-200 g/m ² (depending on use)
Pressure:	2-5 kg/cm ²

Final Performance According to EN 204:2016

Performance Adhesion strength after:	≥ 10 N/mm ²
7 days at (SC):	
Adhesion strength after:	
7 days at (SC)*	≥ 8 N/mm ²
+ 4 days in water (20 ± 5) °C	
+ 7 days at (SC)	

* SC = (23 ± 2)°C & (50 ± 5)% relative humidity
SC = Standard Conditions

Instructions for Use

Preparation:

The application surfaces must be completely dry, clean, and free of resin, dust, oils, chips, loose materials and any remnants of old glue.

Application:

For the "bottle" packaging, cut the nozzle to ensure smooth glue flow and apply to both bonding surfaces.

Apply Atlacoll WP10 thinly and evenly to one side or, if high water resistance is required, to both sides.

For hard wood and very porous surfaces, apply glue to both sides.

Apply the glue with a notched trowel, brush or roller to one or both surfaces and apply pressure for a few minutes (30-90 min).

On clean surfaces, spread an even layer of glue and press them together within 5-10 minutes (open time), pressing for 30-90 minutes.

Drying Time and Final Strength:

Final bonding strength is achieved after 24 hours at 20°C. Bonded parts can be worked on after 3-5 hours (depending on wood quality). When mixed with ATLACOLL GXL 3 Härter, it meets the D4 DIN EN 204 standard requirements. The mixing ratio is 100 parts by weight of Atlacoll WP10 to 5 parts by weight of ATLACOLL-GXL 3 Härter. Mix the glue and the hardener thoroughly.

Recommendations:

- Close the glue container tightly after each use.
- Avoid bonding wet or fresh wood with more than 15% moisture content.
- Avoid mechanical stress on furniture and wooden constructions before 24 hours have passed since glue application.
- Mixture life: Approximately 24 hours at normal temperature. Temperatures above 20°C reduce mixture life.
- Do not mix with other materials.
- Do not apply at ambient temperatures lower than +5°C or higher than +35°C.



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- Protect from frost for the first 24 hours after application.
- Do not use Atlacoll WP10 for bonding wood to cement or other substrates.
- Do not add more than 3% water.
- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene, or bituminous substrates.
- For non-furniture bonding, a simple press for a few minutes is sufficient, and bonding is achieved within 24 hours.
- It is recommended to use clamps, ensuring equal pressure distribution across the surface. For large surfaces, a press or solid rubber roller may be used.
- Surface irregularities and gaps reduce the bonding area, negatively affecting the final bond.

Coverage

50-200 g/m², depending on the quality of the wood.

Cleaning

Glue residues on surfaces, tools, containers, etc., can be cleaned with a clean, wet cloth or sponge while the glue is still wet. After it hardens, cleaning is only possible by mechanical means.

Storage

Shelf life up to 12 months from the production date if stored in its originally closed and sealed container in a dry and shaded environment, at temperatures ranging from 5°C to 30°C. Protect the product from frost. After application, seal the container tightly and store under appropriate conditions.

Packaging

Bottle	Containers		
	1kg	5kg	20kg
750 gr.			

Safety information

The Material Safety Data Sheet should be read and understood by the user before application. For detailed safety instructions and precautions, refer to the product's Safety Data Sheet. The product requires no hazard labeling under current European and national legislation. However, it is recommended to keep it out of children's reach. In case of ingestion, seek immediate medical advice and show the container or label.

Poison Information Centre: +30 210 77 93 777.

