



Technical Data

WEIDU WD-515

Liquid Nails Original

Product Description

WD-515 Liquid Nails Original is a high-strength, multipurpose solvent-based construction adhesive.

Its formula is engineered to form a strong and durable bond on a wide range of building materials. After application, it cures to a resilient state, providing lasting performance in both interior and exterior applications.

Features

- ☑ High Strength: Provides a robust bond for demanding applications.
- ☑ Broad Substrate Compatibility: Adheres effectively to porous and non-porous materials
- ☑ Flexible Bond: Maintains bond integrity under structural movement and vibration
- ☑ Easy Application: Formulated for smooth extrusion, even at lower temperatures
- ☑ Extended Repositioning Time: Allows for adjustment of components up to 20 minutes after assembly

Conforms, Meets & Exceeds

WEIDU™ WD-515 Liquid Nails Original has been internally tested and is designed to meet or exceed the test requirements of: GB/T 4851-2017.

Typical Properties-Uncured

Information on this data sheet can change without notice, and it is therefore not recommended that these figures be used in spec writing. If you have any questions, please contact manufacturer's sales and technical service department.

Property	Value	Test Method
Color	Biege	
Technology	Solvent Based	
Consistency	Paste	
Appearance	Have no grain. No Agglomerations	ISO 11600
Work Life (tooling time)	20 minutes	
Tack Free Time	10-30 seconds	ASTM C679
Specific Gravity (Density, g/cm3)	1.35	ASTM D1475
Sag/Slump	< 6 mm	ASTM C639

Typical Properties-Cured

Property	Value	Test Method
Cure Time*	24 Hours	
Tensile Strength	1MPa (after 7 days cure)	ASTM D412

Cure Note: A strong handling bond is typically achieved within 24 hours, with strength continuing to increase over 2-3 days. Cure time is extended by thicker adhesive applications, less porous surfaces, and cold or humid conditions.



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Surface Preparation

- Critical for Performance: Adhesion may fail on improperly prepared surfaces.
- Surfaces must be clean, dry, and free from dust, oil, grease, loose particles, and mold.
- Remove any standing water. For wet timber, wipe off excess surface moisture.
- Light abrasion (sanding) of smooth, non-porous surfaces can improve adhesion

Application Instructions

- Preparation: Cut nozzle tip to desired bead size (recommended 5mm opening).
- Application: Apply a continuous bead or a series of beads (for large surfaces, apply beads approximately every 40cm). Ensure full coverage of the bond area.
- Assembly: Position components and press together firmly.
- Fixing & Clamping: In high-stress applications, mechanical fasteners (nails, screws) or clamps are required to hold the load and maintain intimate contact while the adhesive cures. Repositioning is possible for up to 20 minutes.
- Curing: Allow a minimum of 24 hours for the adhesive to set before removing any temporary clamps or supports. Avoid stressing the joint for the full 7-day cure period.

Clean Up

- Uncured Adhesive: Remove with mineral turpentine.
- Cured Adhesive: Can only be removed mechanically by scraping or sanding.

Limitations

Do NOT use Liquid Nails Original for the following:

- ☒ As the sole bonding agent for critical structural loads.
- ☒ On polystyrene or styrofoam (will dissolve foam).
- ☒ For bonding mirrors.
- ☒ On metals that will be heated by direct sunlight to high temperatures.
- ☒ In permanently submerged or water immersion conditions.
- ☒ In tightly clamped joints with zero movement (e.g., fine cabinet joinery).
- ☒ On surfaces that exude oils, plasticizers, or solvents.

Safety & Handling

Refer to the current Safety Data Sheet (SDS) before use for comprehensive information on hazards, personal protective equipment (PPE), first aid, and safe handling procedures.

- Use in a well-ventilated area.
- Avoid contact with skin and eyes.
- Keep away from heat, sparks, and open flame.

Storage & Shelf Life

Store in a cool, dry place with the lid tightly sealed. Avoid exposure to extreme temperatures or direct sunlight. Shelf life is typically 18 months from date of manufacture when stored under recommended conditions.

Packaging Information

WEIDU™ WD-515 Liquid Nails Original is supplied in 280ml cartridge.

Caution/Safety

Please refer to the SDS for the corresponding product for information regarding safety and handling. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The Material Safety Data Sheet is available upon request.



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Warning Information

WEIDU™ warrants that its product complies, within its shelf life, to its specification.

If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. It is understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.

Liability

The information in this document, in particular recommendations regarding the application and final use of our products, is given in good faith based on our knowledge and is the result of tests and experience and is intended as guidelines. It is the responsibility of the user to determine whether the product is suitable for their application. Due to the great variety of materials and conditions, which are beyond our knowledge and control, we recommend carrying out sufficient prior trials.

The property rights of third parties must be respected.

This TDS replaces and supersedes all previous data sheets for the same product.



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