

## Questions & Answers

### What is Titebond® III Ultimate Wood Glue?

Titebond® III is the first one-part, waterproof wood glue that cleans up with water and offers a one-year shelf life. It is an advanced, proprietary polymer-based formula that offers the preferred performance attributes as defined by professional woodworkers. Titebond® III represents the benefits of multiple gluing technologies and delivers them in a single product, ideal for interior and exterior woodworking applications.

### What is the difference between the ANSI/HPVA Type I and Type II water-resistance specification?

Both of these tests are conducted using 6" by 6" birch laminates glued together to make three-ply plywood. The test for Type I is clearly more stringent than Type II, and involves boiling the glue bonds and testing the specimens while they are wet.

Type I testing involves cutting the 6" by 6" assemblies into 1" by 3" specimens, boiling them for 4 hours, then baking the specimens in a 145°F oven for 20 hours. They are boiled for an additional 4 hours, then immediately cooled using running water. The specimens are sheared while wet, and the bonds must pass certain strength and wood failure requirements to pass the Type I specification.

Type II testing involves cutting the 6" by 6" assemblies into 2" by 5" specimens, soaking them for 4 hours, then baking the specimens in a 120°F oven for 19 hours. This is repeated for a total of three cycles, and the bonds must not delaminate to pass the Type II specification.

### How does Titebond® III compare to polyurethane glues?

While polyurethane glues bond well to a variety of materials, Titebond® III is superior in many ways. In addition to excellent water-resistance, it provides a stronger bond on wood-to-wood applications, doesn't foam and requires less clamp time. Titebond® III has no health issues, doesn't require the use of gloves and cleans up with water. It is significantly less expensive than polyurethane glues and offers similar coverage rates.

### Why should I use Titebond® III instead of Titebond® II or the other Titebond Wood Glues?

While all Titebond® products provide superior performance, Titebond® III is especially useful for outdoor applications in cooler temperatures or when concern for substantial moisture calls for the use of a Type I glue. For interior applications, the longer working time of Titebond® III provides woodworkers the necessary latitude to ensure that substrates are precisely aligned before being bonded. Overall, Titebond® III combines superior strength, Type I water-resistance, long open time and low chalk temperature into one easy-to-use formulation.



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**Franklin International**

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The Best Wood Glue Ever



## Industry Leadership & Commitment

As the industry leader in bonding wood and wood products, our tradition and professional acceptance has been built on unsurpassed product quality, personalized customer service and technical support. We take great pride in our grass-roots approach to listening to, and better understanding, the needs of woodworking professionals. Recognizing these needs has been the foundation of the Titebond® brand since its inception in 1952. This commitment to excellence in providing real-world solutions continues to drive the Titebond® pursuit of industry leadership.

## Designed With The Woodworker In Mind

Although particular applications may demand varied gluing techniques, the majority of professional woodworkers have clearly defined the critical aspects of the ultimate wood glue. Through research, trade shows and industry forums, we have gained valuable insight regarding product performance and application. This insight has been instrumental in shaping our product development efforts.



The result is a wood glue we believe to be superior in many key performance criteria as defined by woodworkers. In short, we developed the product you asked for and are proud to continue our leadership position within the industry.

## The Best Wood Glue Ever

With a logical progression of performance and application our primary objective, we are proud to introduce the newest addition to the Titebond® family. Titebond® III Ultimate Wood Glue is the first one-part wood glue to pass the ANSI Type I water-resistance specification and offer a one-year shelf life. It is truly innovative in its technology, performance, application and capabilities.

Titebond® III is proven waterproof and yet cleans up with water. It offers a longer open assembly time, lower application temperature and an incredibly strong bond. Compared to polyurethanes, Titebond® III is stronger, safer, easier to clean up and less expensive. Plus, it requires less clamp time, doesn't foam and won't stain your skin. For wood-to-wood applications, there is no better choice than Titebond® III.

## What Does "Ultimate" Really Mean?

Titebond® III is the most advanced wood glue available today. It combines the strength, sandability, ease of use and water cleanup of PVAs (aliphatic resins) with the durability, open time and water-resistance of polyurethanes.

- Waterproof – Passes ANSI/HPVA Type I Specification
- Superior strength
- Longer open time
- Lower application temperature
- Resists solvents, heat and mildew
- Unaffected by finishes
- Water cleanup & Non-toxic
- FDA approved for indirect food contact
- Sands easily without softening
- Safer than traditional waterproof glues

**Ultimate in Waterproof**  
Passes Type I water resistance

**Ultimate in Strength**  
4,000 psi

**Ultimate in Time**  
10-minute open time

**Ultimate in Temperature**  
Down to 47°F

## The Best Of The Best

Titebond® brand wood glues have set the industry standard for over 50 years. Titebond® III is the best-performing Titebond® wood glue and is ideal for both interior and exterior woodworking. It offers the highest strength, longest open time, lowest chalk temperature, highest viscosity and the best water-resistance of our primary wood glues.

	<b>Titebond® III WOOD GLUE</b>	<b>Titebond® II WOOD GLUE</b>	<b>Titebond® WOOD GLUE</b>
<b>Strength*</b>	4,000 psi	3,750 psi	3,600 psi
<b>Open Time</b>	10 minutes	5 minutes	5 minutes
<b>Chalk Temp</b>	47°F	55°F	50°F
<b>Viscosity</b>	4,200 cps.	3,200 cps.	3,400 cps.
<b>Exterior Use</b>	Yes**	Yes***	No

\* Maple to maple (ASTM D-905)

\*\* Passes ANSI/HPVA Type I water-resistance (see definition on back panel)

\*\*\* Passes ANSI/HPVA Type II water-resistance (see definition on back panel)

## Ultimate Technical Support

**1-800-347-GLUE**

Product, Application & Helpful Hints

## Physical Properties

<b>Type</b>	Advanced Proprietary Polymer
<b>Calculated VOC (less water)</b>	5.6 g/L
<b>State</b>	Liquid
<b>Weight/gallon</b>	9.22 lbs.
<b>Color</b>	Tan
<b>Chalk temperature*</b>	Approx. 47°F
<b>Dried film</b>	Light Brown
<b>Flashpoint</b>	>200°F
<b>Solids</b>	52%
<b>Freeze/thaw stability</b>	Stable (5 cycles)
<b>Viscosity</b>	4,200 cps.
<b>pH</b>	2.5-3.0
<b>Storage life</b>	12 months (in tightly closed containers at 75°F)

