Titebond®
THE PRO'S ADVANTAGE™

CONSUMER
WOOD GLUES

LEADERSHIP
PERFORMANCE
INNOVATION
SOLUTIONS

LEADERSHIP

HISTORY OF SOLUTIONS
FUTURE OF COMMITMENT

For over 80 years, we have been the industry leader in bonding wood and wood products. Our strong tradition and professional acceptance has been built on unsurpassed product quality, technical expertise and personalized solutions.

Today, the Titebond brand offers the most comprehensive line of water-based glues for woodworking applications.

- 20+ unique, high-quality formulas designed for superior performance and application
- Proprietary technology driven by extensive research and vertical integration

ONE BRAND
MULTIPLE SOLUTIONS

Novice woodworkers, serious hobbyists and professional craftsmen demand performance, consistency, reliability and value.

- Same high-quality formulas for all product sizes, from 4 oz bottles to 52 gallon drums
- Unique solutions for dark woods, vertical applications and more complex assemblies
- Expert technical advice –1.800.347.GLUE (4583)

INNOVATION

CUSTOMER-DRIVEN
PRACTICAL APPLICATIONS

We dedicate significant resources to optimize existing product formulas and evaluate new technologies. Our long-standing commitment to research and development continues to bring innovative products to the market.

INDUSTRY **FIRSTS**

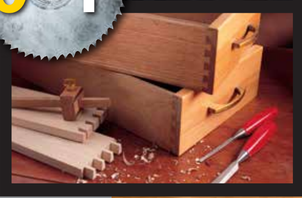
- Hide glue in **ready-to-use, liquid** form
- **Aliphatic resin** glue for woodworking
- One-part PVA glue to pass ANSI/HPVA **Type II** water-resistance
- One-part PVA glue to pass ANSI/HPVA **Type I** water-resistance

SUPERIOR PERFORMANCE
WITHOUT COMPROMISE

Not all wood glues are the same. We develop and manufacture the base polymers which are the backbone of our products. Plus, our quality control and manufacturing processes ensure the BEST wood glue for your project.

PREFERRED BY PROS

6 TO 1



FAQ

COMMON QUESTIONS
TRUSTED ANSWERS

What Are The Differences Between Titebond's Top 3 Wood Glues?

	Titebond III	Titebond II	Titebond Original
STRENGTH*	4,000 psi	3,750 psi	3,600 psi
OPEN TIME	8-10 min	3-5 min	4-6 min
CHALK TEMP	45°F	55°F	50°F
VISCOSITY	3,250 cps	3,750 cps	3,750 cps
EXTERIOR USE	Yes**	Yes***	No

What Is ANSI/HPVA Type II Water Resistance?
Specimens are soaked in water for four hours, then dried in an oven at 120°F. If no delamination is seen after three cycles, the glue passes.

What Is ANSI/HPVA Type I Water Resistance?
This is more rigorous than the Type II test. It involves specimens being immersed in boiling water for four hours, then dried in an oven at 150°F, then boiled again for four hours, and cooled in water just prior to testing. Specimens must meet strength and wood failure requirements.

Are Titebond Wood Glues Safe To Use?
Yes. They are non-toxic, solvent free and produce no harmful fumes. We recommend using gloves when using Titebond Polyurethane Glue; not only can it stain your hands, but exposure can cause irritation or sensitivity to this product.

How Do I Clean Up Wet Glue Or Remove Dried Glue?
Use a damp cloth and remove glue before it has dried. If dried, gentle scraping or sanding works fine. Polyurethane can be cleaned with acetone, or wait until cured and scrape off.

Can Titebond Glues Be Used After They Are Frozen?
Yes. Most of them pass 3-5 freeze/thaw cycles. If frozen, let acclimate to room temperature and shake/stir to original form.

Can Titebond Wood Glues Be Thinned?
Yes. Thin with water up to 5% by weight or volume. Polyurethane and Hide Glue can be thinned by placing closed bottle in warm water.

Is It Possible To Dye Titebond Wood Glues A Different Color?
Yes. It is possible to change the color by adding aniline-based dyes. Call our Technical Support at 1.800.347.4583 for more information.

How Do I Read Lot Numbers?

`Ayymmdd###`

A stands for Made in the U.S.A. **yy** year manufactured **mm** month **dd** day **###** batch number

`A190415123`

Made in the U.S.A. Manufacture date April 15, 2019 Batch #123

How Do I Obtain A Safety Data Sheet?
Visit titebond.com or
call Technical Support at 1.800.347.4583

	Type	Strength*	Chalk Temp	Shelf Life	Dried Film	Cleanup	VOC	Open/Total Assembly Time
TITEBOND III ULTIMATE	Proprietary Polymer	4,000 psi	45°F	2 years	Light Brown	1	9.0 g/L	8-10 / 20-25 minutes
TITEBOND II PREMIUM	Cross-linking PVA	3,750 psi	55°F	2 years	Yellow	1	3.0 g/L	3-5 / 10-15 minutes
TITEBOND ORIGINAL	Aliphatic Resin	3,600 psi	50°F	2 years	Yellow	1	10.7 g/L	4-6 / 10-15 minutes
TITEBOND II PREMIUM DARK	Cross-linking PVA	3,750 psi	55°F	2 years	Brown	1	5.5 g/L	3-5 / 10-15 minutes
TITEBOND POLYURETHANE	Polyurethane	3,510 psi	n/a	1 year	Tan	2	0 g/L	25 minutes total
TITEBOND QUICK & THICK	Thixotropic PVA	3,000 psi	50°F	2 years	Clear	1	2.4 g/L	3-5 / 8-10 minutes
TITEBOND LIQUID HIDE	Natural Protein Solution	3,590 psi	n/a	2 years	Transparent Amber	3	0 g/L	6-8 / 25-30 minutes

*Maple to Maple (ASTM D905) Bond Strength at 70°F
** Passes ANSI/HPVA Type I water-resistance
*** Passes ANSI/HPVA Type II water-resistance

1 Water when wet, sand when dry
2 Mineral spirits when wet, sand or scrape when dry
3 Water when wet or dry

PRODUCTS

DESIGNED TO ACHIEVE
MAXIMUM PERFORMANCE

TITEBOND III ULTIMATE

Our fastest growing formula, it could possibly be the best wood glue ever! Rated #1 by PROS for its superior strength, lower application temperature and waterproof bond.

- **Exterior/Interior projects** 4 oz 1412
- **Passes ANSI/HPVA Type I** 8 oz 1413
- **Longer assembly time** 16 oz 1414
- **Water cleanup – Non-toxic** Quart 1415
  Gallon 1416

TITEBOND II PREMIUM

Our #1 selling wood glue! Strong initial tack, shorter assembly time and excellent water-resistance make it the ideal choice for woodworking and home repairs.

- **Interior/Exterior projects** 4 oz 5002
- **Passes ANSI/HPVA Type II** 8 oz 5003
- **FDA-approved for indirect food contact** 16 oz 5004
- **Water cleanup – Non-toxic** Quart 5005
  Gallon 5006

TITEBOND II DARK

For darker woods! Strong initial tack, shorter assembly time and excellent water-resistance make it the ideal choice for woodworking and home repairs.

- **Interior/Exterior projects** 8 oz 3703
- **Passes ANSI/HPVA Type II** 16 oz 3704
- **Unaffected by finishes** Gallon 3706
- **Water cleanup – Non-toxic**

TITEBOND ORIGINAL

Recognized as the industry standard for general woodworking applications. It has been the preferred choice of professional woodworkers for over 60 years.

- **Interior projects** 4 oz 5062
- **Strong initial tack** 8 oz 5063
- **Excellent sandability** 16 oz 5064
- **Water cleanup – Non-toxic** Quart 5065
  Gallon 5066

TITEBOND QUICK & THICK

2X faster & 3X thicker than traditional PVAs! Ideal for the woodshop, home or crafts. Bonds wood, ceramic, stone, glass, fabrics and most craft materials.

- **Interior projects** 8 oz 2403
- **Dries clear – Paintable**
- **Fills small gaps**
- **Water cleanup – Non-toxic**

TITEBOND ALL PURPOSE WHITE

This professional-grade formula is ideal for crafts, home repairs and general woodworking. It provides excellent strength and a fast set on wood, paper, fabrics, pottery and more!

- **Strong initial tack** 4 oz 5032
- **Dries clear** 8 oz 5033
- **Versatile – Paintable** 16 oz 5034
- **Water cleanup – Non-toxic** Gallon 5036

TITEBOND POLYURETHANE

A versatile, professional strength formula specifically designed for multi-surface applications. Bonds wood, metal, stone, ceramic, HPL, Corian and most plastics.

- **Exterior/Interior projects** 4 oz 2302
- **Passes ANSI/HPVA Type I – Waterproof** 8 oz 2303
- **Long open time and short clamp time** 12 oz 2300
- **Sands easily – Unaffected by finishes**

TITEBOND GENUINE HIDE

The original hide glue that requires no mixing or heating. It features a longer assembly time, exceptional creep-resistance and reversible bond capabilities.

- **Interior projects** 4 oz 5012
- **Ideal for antiques and "crackling"** 8 oz 5013
- **Excellent sandability** 16 oz 5014
- **Water cleanup – Non-toxic**

Titebond®
THE PRO'S ADVANTAGE™

CABINET SHOP
WOOD GLUES

LEADERSHIP
PERFORMANCE
INNOVATION
SOLUTIONS

TRUST

TITEBOND QUALITY IS ALL AROUND YOU

For over 80 years, highly-respected manufacturers have trusted Titebond as a critical component of their products. Even today, they continue to rely on our quality, technical expertise and personalized customer solutions.

Titebond offers the most complete line of water-based glues for wood and wood-based material applications.

- 300+ unique, high-quality formulas designed for superior performance
- The right solution for nearly every application
- Proprietary technology driven by extensive research and vertical integration
- Expert technical advice –1.800.347.GLUE (4583)

PARTNERS WHO TRUST TITEBOND

PPG INDUSTRIES
Thomasville
ETHAN ALLEN
AIRSTREAM
Baldwin
MARVIN
Gibson
Sealy
Pella

APPLICATION

TIPS FOR WOOD SURFACE PREPARATION

1. For best results, the moisture content of the wood should be 6% – 10% and the relative humidity 40% – 50%.
2. To prevent "stepped joints", all wood should have similar moisture content. For best results, allow wood to acclimate, or sit exposed in your shop, for at least 10 days.
3. When working with oily woods, wipe the joints with acetone before gluing. Sanding or planing before gluing will also help ensure a good bonding surface.
4. All wood pieces should fit tightly, with no saw marks or burnishing of the surfaces to be glued.

CLAMPING PRESSURE GUIDELINES

1. Appropriate clamp pressure is necessary for a successful bond. Please use the following wood guidelines:

	Wood Type	Strength
SOFT	pine, poplar	100 – 150 psi
MEDIUM	cherry, birch	150 – 200 psi
HARD	oak, maple	200 – 300 psi

2. Clamp time is dependent on many factors. We recommend clamping an unstressed joint for at least 30 minutes (longer is better). Do not stress joint for 24 hours. For bent laminations, clamp for 24 hours.
3. Position clamps a minimum of 1.5" – 2" in from the side and evenly spaced at 8" – 12" throughout the piece.
4. Do not use metal tools with Titebond Wood Glues. Although it won't affect the bond strength, it could darken the glue line.

PRODUCTS

DESIGNED TO ACHIEVE MAXIMUM PERFORMANCE

TITEBOND ORIGINAL

Recognized as the industry standard for general woodworking applications. It has been the preferred choice of professional woodworkers for over 60 years.

- **Strong initial tack** — Gallon 5066
- **Excellent sandability** — 2.15 Gal 50609
- **Unaffected by finishes** — 5 Gal 5067
- **Water cleanup – Non-toxic** — 55 Gal 5068

TITEBOND ORIGINAL EXTEND

A slower-setting version of Original Wood Glue, it is ideal for more complex woodworking assemblies.

16 oz 9104 | 1 Gal 9106 | 5 Gal 9107 | 55 Gal 9108

TITEBOND NO-RUN, NO-DRIP

2X faster & 3X thicker than traditional PVAs! Ideal for vertical applications like finish & trim, moldings, window casings and more. Strong initial tack, fast set, fills small gaps and dries clear.

16 oz 2404

TITEBOND WHITE GLUE

Professional-strength formula ideal for general woodworking applications. Strong initial tack, fast set, excellent sandability and unaffected by finishes.

- **Interior projects** — Gallon 15026
- **Dries clear – Paintable** — 5 Gal 5027
- **Water cleanup – Non-toxic** — 55 Gal 5028

SUPER TITEBOND

A professional-quality formula that offers longer assembly time, superior sandability and heat-resistance. Ideal for edge and face gluing on panels, squares and other wood components.

5 Gal 5077 | 55 Gal 5078

TITEBOND II PREMIUM

Our #1 selling wood glue! Strong initial tack, shorter assembly time and excellent water-resistance make it the ideal choice for interior and exterior woodworking.

- **Passes ANSI/HPVA Type II** — Gallon 5006
- **Ideal for R-F gluing systems** — 2.15 Gal 50009
- **Water cleanup – Non-toxic** — 5 Gal 5007
- **FDA approved for indirect food contact*** — 55 Gal 5008

TITEBOND II PREMIUM EXTEND

A slower-setting version of Premium Wood Glue, it is ideal for more complex woodworking assemblies.

16 oz 4134 | 1 Gal 4136 | 5 Gal 4137 | 55 Gal 4138

TITEBOND II DARK

A dyed version of Premium Wood Glue, it cures to a brown glue line for darker wood species.

16 oz 3704 | 1 Gal 3706 | 5 Gal 3707 | 55 Gal 3708

TITEBOND II FLUORESCENT

A dyed version of Premium Wood Glue that is visible under black light systems for glue line detection and easy cleanup.

1 Gal 2316 | 5 Gal 2317 | 55 Gal 2318

TITEBOND DOWELING & DOWELING LV

Designed to allow appropriate flow through feed lines and injectors of most doweling equipment. Professional-strength, fast set time and translucent glue line.

Standard (1,500 cps) — 5 Gal 2207
Low viscosity (140 cps) — 5 Gal 3817

*Not applicable for Titebond II Premium Dark or Fluorescent

TITEBOND III ULTIMATE

Our fastest growing formula, it could possibly be the best wood glue ever! Rated #1 by PROs for its superior strength, lower application temperature and waterproof bond.

- **Exterior/Interior projects** — Gallon 1416
- **Passes ANSI/HPVA Type I** — 2.15 Gal 14109
- **Longer assembly time** — 5 Gal 1417
- **Water cleanup – Non-toxic** — 55 Gal 1418

TITEBOND MELAMINE

Designed for bonding wood-based products to synthetic materials, including melamine, vinyl & HPL. Offers a strong initial tack, excellent strength and clear glue line.

16 oz 4014 | 1 Gal 4016 | 5 Gal 4017 | 55 Gal 4018

TITEBOND QUICKSET 2000

Bonds HPL to wood-based substrates. Can be used in pinch roll and dead stacking, continuous heated panel systems or limited lay-up time cold press operations.

5 Gal 61867 | 55 Gal 61868

TITEBOND COLD PRESS HPL

High-performance alternative to contact cement for large-scale flat laminating. Offers excellent strength, moderate speed of set and translucent glue line.

5 Gal 4617 | 55 Gal 4618

TITEBOND COLD PRESS VENEER

For large-scale bonding of veneers to flat surfaces. Offers excellent strength, moderate speed of set and prevents bleed-through on unbacked veneers.

1 Qt 5175 | 1 Gal 5176 | 5 Gal 5177 | 55 Gal 5178

TITEBOND POLYURETHANE

A versatile, professional strength formula specifically designed for multi-surface applications. Bonds wood, metal, stone, ceramic, HPL, Corian and most plastics.

- **Exterior/Interior projects** — 4 oz 2302
- **Passes ANSI/HPVA Type I – Waterproof** — 8 oz 2303
- **Long open time and short clamp time** — 12 oz 2300
- **Sands easily – Unaffected by finishes**

TITEBOND INSTANT BOND

Cyanoacrylates specifically designed for wood, but offers excellent adhesion on many substrates. 5-15 second set and 30-60 second cure. Use with accelerator for faster set times.

Thin	2 oz 6201	4 oz 6202
Medium	2 oz 6211	4 oz 6212
Thick	2 oz 6221	4 oz 6222
Gel	2 oz 6231	4 oz 6232
Accelerator	2 oz 6311 spray	5.5 oz 6319 aerosol

TITEBOND CASE QUANTITIES

Product	Size	Units / Case
Wood Glues	4, 8, 16 oz	12
	12 oz, quarts / gallons	6/2
	2.15, 5, 55 gal	1
Instant Bond	2 oz	15
	4 oz	10
	5.5 oz	12

Franklin International
2020 Bruck Street Columbus, Ohio 43207
1.800.669.4583 sales information
1.800.347.4583 technical information

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 two-year shelf life. It is an advanced, proprietary polymer-based formula that offers 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 Ultimate Wood Glue 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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THE PRO'S ADVANTAGE™

1-800-347-4583
www.titebond.com

Franklin International

2020 Bruck Street, Columbus, Ohio 43207

Titebond®
THE PRO'S ADVANTAGE™

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 performance and application as our primary objective, Titebond®III Ultimate Wood Glue is the first one-part wood glue to pass the ANSI Type I water-resistance specification and offer a two-year shelf life. This proprietary formulation 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
8-10 minutes 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.

	ULTIMATE	PREMIUM	ORIGINAL
Strength*	4,000 psi	3,750 psi	3,600 psi
Open Time	8-10 minutes	3-5 minutes	4-6 minutes
Chalk Temp	45˚F	55˚F	50˚F
Viscosity	4,200 cps.	4,000 cps.	3,200 cps.
Exterior Use	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

Type	Advanced Proprietary Polymer
Calculated VOC (less water)	5.6 g/L
State	Liquid
Weight/gallon	9.22 lbs.
Color	Tan
Chalk temperature*	Approx. 45˚F
Dried film	Light Brown
Flashpoint	>200˚F
Solids	52%
Freeze/thaw stability	Stable (5 cycles)
Viscosity	4,200 cps.
pH	2.5-3.0
Storage life	24 months (in tightly closed containers at 75˚F)

*Chalk temperature indicates the lowest recommended temperature at which the glue, air and materials can be during application, to ensure a good bond.