Titebond® 811 ADVANTAGE
URETHANE WOOD FLOORING ADHESIVE

Franklin International

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811 Advantage

- Excellent strength development
- Enhanced green grab
- Versatile installation method options
- Mold & mildew resistant
- Specifically designed for use with Titebond® Moisture Control Systems

Titebond® 811 Advantage Urethane Wood Flooring Adhesive is ideal for the installation of all wood parquet, engineered and solid plank flooring. It is a moisture-resistant adhesive that offers enhanced strength development and an exceptional final bond. Additionally, Titebond 811 Advantage has been specifically formulated for use with the Titebond family of Moisture Control Systems.

This premium adhesive also provides the installer with options of using the "wet lay" or "flash" methods of installation. The combination of enhanced green grab, excellent strength development and the ability to use with Titebond Moisture Control Systems gives the installer a true "Advantage" over traditional urethane wood flooring adhesives.

Solutions for Flooring & Construction

Construction Products Division
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Why Professional Installers Prefer Titebond® 811 Advantage

811 Advantage

Trowels Easily

Titebond® 811 Advantage is a revolutionary formula that gives the professional installer a product that trowels like a water-based adhesive, while offering the quality of a urethane! Until the development of 811 Advantage, it was thought to be impossible to get a urethane adhesive that troweled easily. Titebond 811 Advantage now gives the professional installer the urethane quality he demands, with a much easier installation.

No Flash Time Required

Ignoring the recommended flash time for water- and solvent-based wood flooring adhesives continues to cause installers significant problems. Titebond 811 Advantage contains no water and is 95% solids. This, along with its moisture-cure characteristics, allows the professional installer to save time in his installation by "wet laying" Titebond 811 Advantage (See page 3 for details on the recommended "wet lay" method).

Easier Repairs

One major drawback of other urethane wood flooring adhesives is the tedious and painstaking process of repairs. Titebond 811 Advantage is engineered to have a tenacious ultimate bond that will last the lifetime of the floor. However, this formula was also designed for easier tear-outs and repairs.

Greatly Reduces Hollow and Popping Spots

Hollow spots, popping spots and squeaks are related to unevenness. Titebond 811 Advantage's non-slump formula reduces hollow and popping spots. The troweled ridges stand up and hold their shape. They do a superior job in bridging normal gaps between the wood and the subfloor. Slumping adhesives have many problems with hollow and popping spots caused by the adhesive's inability to hold a trowel ridge. Titebond 811 Advantage will greatly reduce the professional installer's chances of running into this costly problem.

Easy Cleanup

Other urethane adhesive products may not be clearly visible in their wet state on top of the wood flooring. The color of Titebond 811 Advantage in the wet state is clearly visible and gives the installer adequate time for cleanup before it cures. To complete a successful wood flooring installation, the installer must cleanup the adhesive before it cures.

Specifically Designed for Use with Titebond Moisture Control Systems

Titebond Moisture Control Systems offer the professional installer cost effective, convenient systems designed to reduce concrete subfloor moisture problems in wood flooring installations. When Titebond 811 Advantage is used in conjunction with a Titebond moisture control system, a subfloor moisture warranty may be available. For more details, see literature on Titebond Moisture Control Systems or visit www.titebond.com.

GREEN*choice*™ flooring products

This product is part of the Titebond GREEN*choice* family of professional-grade adhesives. Performance without compromise and integrity to preserving the environment are at the heart of every GREEN*choice* adhesive. These high-performance products are formulated with environmentally superior technology for the toughest jobs. GREEN*choice* is backed by the same quality and support that you know and trust from Titebond.

FEATURES AND BENEFITS

- Lower cost per gallon
- Trowels easily
- Non-slump formula
- Long open time
- Contains no water
- VOC-compliant
- Easy cleanup
- Highly moisture-resistant
- Will not cause dimensional changes in wood flooring
- Excellent bond strength
- No flash time required
- Ideal for above-, on- and below-grade installations
- Unaffected by freezing temperatures
- 95% solids

SPECIFICATION GUIDE FOR TITEBOND® 811 ADVANTAGE

Type of Flooring/Flooring Thickness	Jobsite /Subfloor
• All parquets measuring less than 3/4" thick	• New, old or existing concrete, properly treated light weight concrete
• All engineered flooring	• Below-grade concrete
• Solid wood flooring measuring 5/8" or less in thickness	• Plywood
• Bamboo flooring	• OSB (Oriented Strand Board)
• 3/4" solid shorts (less than 24")	• Radiant heated slabs
• 5/8" plywood (2'x8' or 4'x4')	• Clean and unwaxed vinyl
	• Cork

811 Advantage

How To Get The Best Results Using Titebond® 811 Advantage

HELPFUL HINTS

Limitations

- Do not install solid wood below-grade
- Do not use on concrete with curing agents or sealers (except for recommended Titebond or Franklin products)
- Avoid allowing adhesive to cure on wood flooring surface
- Do not allow foot traffic for 8 hours after installation
- Do not use as a leveler
- Installations in dry or cool environments or over dry subfloors will take longer to cure
- Temperature and humidity will affect the open time and cure time of the adhesive

Storage/Shelf Life

- Store in a clean, dry environment above 60°F
- Shelf life is 1 year from date of manufacture

Re-sealing Partial Pail

1. Scrape sides of pail (this will aid in removal of adhesive later)
2. Place plastic trash bag over unused adhesive, working out any air pockets
3. Replace lid on pail and tightly seal

Re-opening Partial Pail

1. Remove lid
2. Lift trash bag from top of adhesive
3. If done properly, material is ready for use

Gluing a Plywood Substrate Over Concrete

1. Use 5/8" CD Exposure 1 Plywood subfloor panels, 4' x 8' sheets; cut sheets into 2' x 8' or 4' x 4' sections
2. Score the back of the panels half the thickness of the panel on a 12" x 12" grid in order to relieve tension in plywood
3. Use a 1/4" x 1/4" square-notched trowel to apply adhesive to concrete
4. Lay sections in a staggered joint pattern in the adhesive, with 1/8" spacing between sheets, and 3/4" minimum expansion space at walls and all vertical obstructions
5. Add weight as necessary to ensure adhesive remains in contact with plywood as it cures
6. Allow adhesive to dry overnight before proceeding with flooring installation

Subfloor Preparation

All substrates must be clean, dry, structurally sound, properly cured and free of dirt, oil, paint, old adhesive, wax, sealers and curing agents. General scouring with 20 grit or #3 1/2 open-coat sandpaper will remove most compounds. All loose materials must be vacuumed from the surface after scouring. The subfloor must be flat to a tolerance of 3/16" in a 10' radius. Hollow spots, popping spots and squeaks are related to unevenness in the subfloor. Grinding concrete floors is preferred over the use of filling compounds. If filling/leveling compounds are used, they must be portland based cementious materials and have a compressive strength equal to or greater that 3000 psi when cured. Use of adhesive over light weight concrete and all gypsum based materials requires the use of Titebond Concrete Primer or equivalent prior to application of adhesive. For further information on Titebond Concrete Primer, contact Franklin Technical Service at 1-800-347-4583. Remove all existing base, shoe molding and door thresholds prior to continuing the installation. All door casings must be undercut with either a jamb saw or a hand saw. Use a piece of the flooring as a guide to determine the thickness needed.

Subfloor Moisture Check

Titebond 811 Advantage may be used for above-, on- and below-grade applications and on all substrates listed on page two in Specifications Guide. All applications are susceptible to moisture and should be tested for moisture prior to installation in several locations within the installation area.

Acceptable conditions of concrete for above-, on- and below-grade applications are:

- Less than 3 lbs./1000 sq.ft./24 hours on a Calcium Chloride Test (ASTM F1869)
- Less than a reading of 4.5 on a Tramex Concrete Moisture Encounter
- Relative humidity (RH) of 75% or less when tested with an in situ probe (ASTM F2170).

Acceptable conditions of wood substrates are a moisture reading of less than 12% or be no more than 4% different from the flooring being installed when using a Tramex, Delmhorst or equivalent wood moisture meter.

If subfloor moisture conditions do not meet above guidelines at the time of flooring installation or they could exceed them at any time after installation then a Titebond Moisture Control system should be used. For more information concerning these products and moisture conditions, call Franklin Technical Service at 1-800-347-4583.

Flooring Installation Using Titebond 811 Advantage Wood Flooring Adhesive

Titebond 811 Advantage can be installed using the "wet lay" or "flashed" methods, depending on your preference and the environment of your installation.

In the "wet lay" method you do not flash the adhesive; you begin laying the wood flooring immediately after troweling the adhesive. Once the adhesive has been troweled, the wood flooring may be installed immediately into the wet adhesive. To reduce slippage, secure the first two starter rows with starting blocks fastened to the substrate or wedges against starting wall. Remaining planks must be placed firmly into adhesive. Planks which are not flat should be weighted for several hours. In the wet lay method, you should not work on top of the wood.

The "flashed"* method is when the adhesive is allowed to flash for the recommended amount of time prior to installing the wood flooring. While using this method, you are advised to trowel out larger sections of the room so that you spend most of your time laying wood rather than flashing adhesive. Be careful not to exceed 811 Advantage's open time of 90 minutes and do not trowel more adhesive than you can comfortably cover with the flooring in 90 minutes.

* The recommended flash time for Titebond 811 Advantage Urethane Wood Flooring Adhesive is 30 minutes, depending upon subfloor moisture and humidity. Specific questions regarding "flash time" should be directed to Franklin Technical Service at 1-800-347-4583.

PHYSICAL PROPERTIES (TYPICAL)

Type Urethane
Color Brown
Solids 95%
Viscosity 100,000 cps
Weight/gallon 12.4 lbs.

Calculated VOC 65 g/L
Flashpoint >200˚F (Pensky-Martens Closed Cup)
Freeze/Thaw stability Not affected by freezing
Storage life 1 year in tightly closed container

APPLICATION GUIDELINES

Floor Type – Parquet & Engineered	Trowel Size	Coverage
• All parquets measuring less than 3/4" in thickness	1/8" x 1/8" x 1/8" Square-notch	Approximately 65 sq. ft. per gallon
• All engineered flooring	3/16" x 1/4" x 1/2" c-c V-notch	Approximately 50 sq. ft. per gallon
Floor Type – Solid		
• Solid flooring and bamboo with a width less than 3" and measuring 5/8" or less in thickness	3/16" x 1/4" x 1/2" c-c V-notch	Approximately 50 sq. ft. per gallon
• Solid flooring and bamboo with a width greater than 3" and measuring 5/8" or less in thickness, and 3/4" shorts	3/16" x 3/16" x 3/16" Square notch	Approximately 35 sq. ft. per gallon

CLEAN TROWEL OFTEN TO PREVENT ADHESIVE BUILD-UP **Trowels: (not to scale)** Square-notch V-notch

CLEANUP

As the pre-finished flooring is being installed, immediately wipe any wet adhesive from the flooring, tools and equipment with mineral spirits. Do not allow adhesive to cure on surface of the flooring, tools or equipment. Follow solvent manufacturer's directions when working with solvents. Cured adhesive will be difficult to remove. For specific cleaning instructions, call Franklin Technical Service at 1-800-347-4583.

ORDERING INFORMATION

Cat. No.	Size	Units/Case	Case Lbs.	Case/Pallet
2776	1 Gallon Metal Can	4	53.49	45
2779	3.5 Gallon Metal Pail	1	41.98	36

WARRANTY INFORMATION

Franklin International will honor the applicable terms of any wood floor manufacturer's current published adhesive warranty or subfloor moisture warranty (where applicable) when the flooring was installed using Titebond 811 Advantage Urethane Wood Flooring Adhesive in accordance with product instructions and the instructions of the wood floor manufacturer.*

Franklin International will also warrant Titebond 811 Advantage to be free from defects in materials and workmanship for a period of one year from the date of manufacture, if the product has been installed in accordance with the Franklin Specification Guide and the installation instructions furnished with the product. In the event of loss of adhesion of Titebond 811 Advantage due to product defect, Franklin International will reimburse the customer for the cost of labor and materials necessary to repair or replace the affected area(s) of the installed wood flooring.

*Any and all addendums or changes to the wood floor manufacturer's warranties will be reflected in the execution of Franklin International's warranty immediately upon release by the wood floor manufacturer. The effective date of said changes and addendums will dictate coverage by Franklin International in relation to the date of installation.

As Franklin International is honoring the applicable terms of all wood floor manufacturers' current published warranties, Franklin International will also require the same jobsite preparations and installation instructions that accompany each warranty in question.

In the case of subfloor moisture warranties, Franklin International will cover cupping and buckling of the wood floor when the wood floor manufacturer names coverage of these phenomenon explicitly in their subfloor moisture warranty (where applicable), if all installation and subfloor preparation guidelines have been followed.

CAUTION STATEMENT

WARNING: EYE AND SKIN IRRITANT. POTENTIAL SKIN AND RESPIRATORY SENSITIZER. Contains residual isocyanates. Individuals with pre-existing respiratory conditions should avoid exposure to vapors from uncured product. Prolonged or repeated skin exposure may cause skin irritation and sensitization or allergic reaction. Do not swallow or allow eye contact. **First Aid:** If skin contact occurs, wash affected area with soap and flowing water. If irritation persists or allergic reactions develop, seek medical attention. If adverse respiratory effects occur, remove individual to fresh air and seek medical attention. If eye contact occurs flush with water for 15 minutes, seek medical attention. If swallowed, do not induce vomiting, seek medical attention. For additional information, refer to Material Safety Data Sheet. **KEEP OUT OF THE REACH OF CHILDREN.**

Important Notice: Our recommendations, if any, for the use of this product are based on tests believed to be reliable. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing laws and/or patents covering any material or use.

Member National Wood Flooring Association

NAFCD

For more information on Titebond Flooring Products, please visit:
www.titebond.com
www.TitebondGreenChoice.com

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Customer Service 1-800-669-4583
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