

# 231 SELECT

## Acrylic Polymer Wood Flooring Adhesive

- **Strong Initial Tack**
- **VOC-compliant with All Federal & State Regulations Including SCAQMD**
- **Easy to Trowel**
- **Minimizes Hollow & Popping Spots**

### FEATURES AND BENEFITS

- Acrylic polymer formulation
- Excellent strength development
- Low odor
- Ideal for engineered flooring only
- Easy clean-up

### ORDERING INFORMATION

- 3.5 Gallon Plastic Pail / 1 Unit Per Package  
43.48 lbs. / 36 Pails Per Pallet  
Product Code: 3919
- 1 Gallon Plastic Pail / 2 Units Per Package  
24.55 lbs. / 90 Pails Per Pallet  
Product Code: 3916
- 3/16" x 1/4" x 1/2" Trowel (c-c V-notch)  
6 Units Per Package / 9 lbs.  
60 Packages Per Pallet  
Product Code: 17883

Titebond® 231 Acrylic Polymer Wood Flooring Adhesive is a VOC-compliant product ideal for the installation of engineered plank flooring. It offers strong initial tack and excellent strength development with fast grab for the installation of all wood parquet and engineered plank. Titebond 231 is designed to minimize the chances of hollow or popping spots occurring within the floor, resulting in reduced call backs and higher installation success rates. This adhesive is easy to trowel, use and clean-up. The combination of high quality strength characteristics, ease-of-use and favorable regulatory properties makes Titebond 231 a solid choice for wood flooring installation professionals.

**EASY  
CLEAN UP**

**STRONG  
INITIAL  
TACK**

**EXCELLENT  
STRENGTH  
DEVELOPMENT**



**Titebond®**  
THE PRO'S ADVANTAGE™

## PHYSICAL PROPERTIES

- **Type:** Acrylic polymer
- **Color:** Tan/off-white
- **Solids:** 80%
- **Flashpoint:** >200°F
- **Freeze/Thaw stability:** Passes 5 cycles at 0°F
- **Storage life:** 24 months in tightly closed container
- **Calculated VOC:** 49.4 g/L
- **Weight/gallon:** 10.7 lbs.
- **Viscosity:** 100,000 cps.

## 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. Grinding concrete floors is preferred over the use of filling compounds. If filling/flattening compounds are used, they must be Portland-based cementitious material and have a compressive strength equal to or greater than 3000 psi when cured. Concrete subfloors must have a density of at least 90 lbs./cu.ft. When using cementitious materials, they must be rated for the moisture content in the concrete slab. Always use the highest rated materials for moisture because the moisture levels will change. Use of adhesive over light weight concrete and all gypsum-based materials requires the use of Titebond Concrete Primer prior to application of adhesive. 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.

## INSTALLATION

Titebond 231 Acrylic Polymer Wood Flooring Adhesive SHOULD NOT BE FLASHED. Begin laying the wood flooring immediately after troweling the adhesive with the correct trowel. To reduce slippage, secure the first starter row with Titebond Tape. Do not work on top of flooring that was just installed. Work in small sections to ensure proper transfer of the adhesive to the wood flooring, placing remaining planks firmly into adhesive. Proceed in this manner until the field is complete, making sure to allow for proper expansion space around the room. Refer to flooring manufacturer for expansion spaces. After completion, wedge the flooring so that it remains tight during the drying process. Planks which are not flat should be weighted for several hours. Before leaving for the day, walk the floor and look for any defects or other cosmetic blemishes. This will also ensure the wood flooring is properly seated into the adhesive. After the adhesive has dried, remove and discard the wedges.

Titebond 231 Acrylic Polymer Wood Flooring Adhesive may be used for above-, on- and below-grade applications and on all substrates listed in this specification 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)

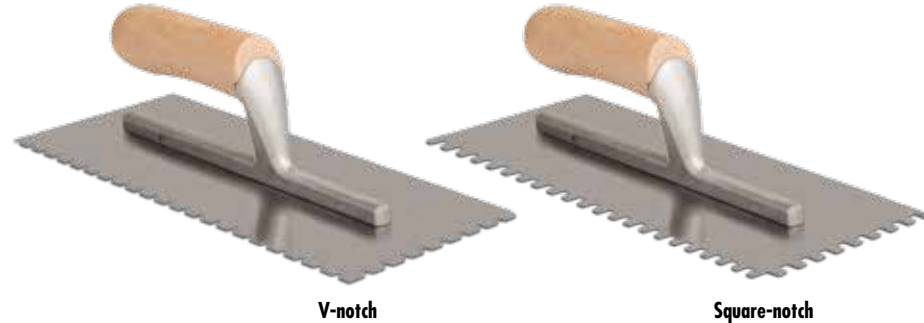
Wood subfloors that have a moisture reading of less than 13% or are no more than 4% different from the flooring being installed when using a Tramex, Delmhorst or equivalent wood moisture meter.

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.

## APPLICATION GUIDELINES

TYPE OF FLOORING/FLOORING THICKNESS	TROWEL SIZE	COVERAGE
All engineered flooring .....	3/16" x 1/4" x 1/2" (c-c (or 5/16" space) V-notch) .....	50 sq. ft. per gallon
All parquets measuring less than 1/2" thickness .....	1/8" x 1/8" x 1/8" (Square-notch) .....	60 sq. ft. per gallon

**Jobsite/Subfloor:** New, old or existing concrete / Properly treated light weight concrete / Plywood / Clean and unwaxed vinyl / On-, above- or below-grade applications



## CLEAN UP

Wet adhesive can easily be cleaned up with a dry towel, towel soaked with water or mineral spirits or Titebond Adhesive Remover Cleaning Wipes. If the adhesive has dried, use a cloth dampened with mineral spirits. Follow solvent manufacturer's directions when working with solvents and other flammable materials. For specific cleaning instructions, call Franklin Technical Service at 1.800.347.4583.

**WARNING:** Suspected of causing cancer if inhaled. May cause damage to organs through prolonged or repeated exposure if inhaled (central nervous system (CNS), kidneys, livers). Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapor. Prolonged or repeated contact may dry skin and cause irritation. Avoid contact with skin and clothing. Wash thoroughly after handling. **FIRST AID:** Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. Dispose of contents and container in accordance with all local, regional, nation and international regulations. For additional information, refer to Safety Data Sheet.

**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.

**WARRANTY:** The full warranty for Titebond 231 Acrylic Polymer and all Titebond flooring products can be obtained at [www.Titebond.com](http://www.Titebond.com) or by calling 1.800.347.4583.



VISIT [WWW.TITEBOND.COM](http://WWW.TITEBOND.COM) FOR THE MOST UP-TO-DATE PRODUCT INFORMATION



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