

# Titebond®

## Titebond 531 Plus Moisture Control System

Titebond® 531 PLUS Concrete Moisture Control System solves the challenges of moisture transfer from concrete subfloors to wood and resilient flooring by reducing the transmission rate of moisture. The system consists of two pre-measured components that are mixed together to form a coating that is applied to the concrete surface. The easy-to-use formula will reduce the moisture vapor transmission rate from most concrete subfloors by 75%-90%.

When used as directed with recommended wood flooring and resilient flooring adhesives, Titebond 531 PLUS is fully-warranted. It dries fast, is tack-free in less than two hours under most conditions, has a low odor and eliminates the need for bead blasting or other inconvenient measures. It is VOC-compliant, meeting the most stringent national regulations. In addition, it helps reduce the potential for mold and mildew growth caused by subfloor moisture.

Titebond 531 PLUS provides the professional installer with a cost-effective, convenient system designed to reduce concrete subfloor moisture transfer to wood and resilient flooring.

**Meets LEED - Green Building Standard 189, GBI - Green Globes Design Standard, NAHB/ICC National Green Building Std qualifications for Green building materials**



### Product Features

- Cure time is approximately 1.5 to 2 hours at 70°F
- Allows for same-day installation of flooring material
- VOC-compliant
- One self-contained package
- One coat application
- Pre-measured portions to ensure proper mixing ratios
- Complete installation directions on containers
- Gallon size covers 320 square feet for Platinum Warranty
- Easy to mix and apply
- Less expensive than underlayments and vinyl
- 10 Year Residential Warranty; 5 Year Commercial Warranty
- Mold and mildew resistant
- Low odor
- No slab testing required for wood installations
- No moisture limitation for wood installations

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## Physical Properties

### Resin (Part A)

**Weight/gallon** 9.12 lbs.

**Viscosity** 70 cps.

**Color** White

**VOC** 47 g/L

**Flashpoint** > 201°F

### Hardener (Part B)

**Weight/gallon** 9.26 lbs.

**Viscosity** 4100 cps.

**Color** Amber

**VOC** 0 g/L

**Flashpoint** > 201°F

### Titebond 531 Mixture

**Weight/gallon mixed** 9.14 lbs.

**Viscosity mixed** 1000 cps.

**Calculated VOC mixture** 39 g/L

**Tack Free Time** 2 hours 70°C

**Color** White

**Mix ratio by volume** 100:17.6

**Mix ratio by weight** 100:17.5

**Pot life at 25°C** 30 min

**Storage life** 24 months in tightly closed container

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## Application Guidelines

**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.

For installation of wood flooring products (Engineered, Solids, Bamboo and Laminate), 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 cementitious materials and have a compressive strength equal to or greater than 3000 psi when cured. Use of Titebond 531 PLUS 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.

For the installation of resilient flooring products (Vinyl, VCT, Rubber Tile, LVT, etc.), remove all existing base, shoe molding and door thresholds prior to continuing the installation. Apply Titebond 531 PLUS. After it has cured, apply a ¼ inch thick layer of portland based cementitious material (with a compressive strength equal to or greater than 3000 psi when cured) to create a porous substrate. Follow cementitious materials manufacturer's recommendations for application to 531 PLUS. The subfloor must be flat to a tolerance of 3/16" in a 10' radius.

**Moisture Content Limitations** There are no moisture content limitations or requirements for slab testing prior to installation for wood flooring installations when all terms of the warranty have been met. The moisture content limit for resilient installations is 12 lbs./1000 sq. ft./24 hours per a Calcium Chloride Test (ASTM F1869) or 85% relative humidity (RH) when tested with an in situ probe (ASTM F2170). Do not use Titebond 531 PLUS on concrete subfloors that exceed the 12 lb. (85% RH) limit for resilient installations. Refer to warranty section for complete details.

**Ventilation** Positive cross ventilation is required at all times. Fans should be used to circulate air across the surface of the product after it has been applied to the subfloor to facilitate the drying process. This will help promote curing in a timely manner.

**Mixing Directions** DO NOT THIN. DO NOT HAND MIX. Begin mixing both components in the Part A pail using a power mixer (e.g. 1/2" drill and paint or plaster paddle). Mix thoroughly for three minutes. Once Titebond 531 PLUS is completely mixed, the working time is 30 minutes. The portions are pre-measured to assure optimal performance. DO NOT MODIFY OR ESTIMATE.

**Application Directions** Apply Titebond 531 PLUS directly to a clean and dry surface at a rate of 5 mils wet film thickness (320 sq. ft. per mixed gallon unit). Apply with a 3/8" nap roller immediately after mixing. Pour a "wet-line" approximately 3" wide the length of the room and spread with a roller. The product may be used from a pan also. Avoid excessive pressure on the roller so that an adequate amount of material will be spread. Excessive pressure will thin the material application. For best results, divide the area into 4 sections and use 1/4 of the mixed product in each section. Do not extend the coverage as this will result in a voided warranty. Working time is 30 minutes once completely mixed.

**Application Conditions** For best results, do not apply Titebond 531 PLUS when the temperature is below 65°F. Temperatures below 65°F and high humidity conditions may lead to increased curing time.

**Curing Time** Flooring may be installed over the Titebond 531 PLUS after the product is tack free or about 1.5 to 2 hours at 70°F. Lower temperatures and high humidity conditions may increase curing time. For questions, call Franklin Technical Service at 1-800-347-4583.

**Cleanup** Fresh coatings and tools can be cleaned with mineral spirits. Follow solvent manufacturer's directions when working with solvents and other flammable materials. Cured material is extremely difficult to remove.

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## Caution Statements

**WARNING: EYE AND SKIN IRRITANT AND RESPIRATORY IRRITANT.** Prolonged or repeated skin exposure may cause skin irritation and sensitization or allergic reaction. Do not swallow or allow eye contact. Avoid breathing vapors. Use only with adequate ventilation. Wear appropriate personal protective equipment. **First Aid:** If skin contact occurs, wash affected area with soap and flowing water and 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 immediately. 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. FOR PROFESSIONAL USE ONLY.**

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## Ordering Information

Part No.	Size	Weight	UPC	Case UPC	Units Per Package	Packages Per Pallet
1296	Gallon Kit	11.82			1	44

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**Important Notice:** Our recommendations, if any, for the use of this product are based on tests believed to be reliable. Since the use of this product is beyond the control of the manufacturer, no guarantee or warranty, expressed or implied, is made as to such use or effects incidental to such use, handling or possession or the results to be obtained, whether in accordance with the directions or claimed so to be. The manufacturer expressly disclaims responsibility therefore. 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.

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