

531

Moisture Control System

- **Reduces Moisture Transmission by 75%-90%**
- **Mold and Mildew Resistant**
- **One Coat Coverage**
- **Comprehensive Warranty Applies with Proper Adhesive Use**
- **Bead Blasting Not Required**

FEATURES AND BENEFITS

- Pre-measured portions to ensure proper mixing ratios
- Gallon size covers 400 square feet for Gold Warranty at 4 mils or 250 square feet for Platinum Warranty at 6.5 mils
- Easy to mix and apply
- Less expensive than vinyl moisture barriers
- 10-year residential warranty; 5-year commercial warranty
- Cure time is approximately 4-6 hours at 70°F
- Adhesion promoter

ORDERING INFORMATION

- 1.1 Mixed Gallons - Includes: 1 Gallon Metal Can (Hardener) 2 Gallon Plastic Pail (Resin) / 1 Unit Per Package / 13.23 lbs. / 32 Pails Per Pallet / Product Code: 1286

Titebond® 531 Moisture Control System solves the challenges of moisture transfer from concrete subfloors to wood 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 reduces the moisture vapor transmission rate from concrete subfloors by 75%-90% depending on the coat weight and coverage per square foot applied of Titebond 531.

When used as directed with recommended Titebond wood flooring adhesives, Titebond 531 is fully-warranted. It dries fast, is tack-free overnight and eliminates the need for bead blasting or other inconvenient measures. In addition, it helps reduce the potential for mold and mildew growth caused by subfloor moisture. Titebond 531 provides the professional installer with a cost-effective, convenient system designed to reduce concrete subfloor moisture in wood flooring installations.



**ONE
COAT
COVERAGE**

**MOLD
& MILDEW
RESISTANT**

**DRIES
CLEAR**

Titebond®
THE PRO'S ADVANTAGE™

PHYSICAL PROPERTIES (TYPICAL)

- **Type:** Epoxy
- **Color:** Clear
- **Solids:** 97%
- **Pot Life at 25°C:** 30 min
- **Mix Ratio by Volume:** 100:80
- **Storage life:** 4 years in tightly closed container
- **Calculated VOC:** 98 g/L
- **Weight/gallon:** 8.59 lbs.
- **Viscosity:** 340 cps
- **Tack Free Time:** 4-6 hours 70°F
- **Mix Ratio by Weight:** 100:69

Resin (Part A)

- **Weight/Gallon:** 9.18 lbs.
- **Viscosity:** 260 cps
- **Color:** Clear
- **Flash Point:** 105-110°F

Resin (Part B)

- **Weight/gallon:** 8.24 lbs.
- **Viscosity:** 800 cps
- **Color:** Amber
- **Flash Point:** 120°F

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 floors) and resilient floors, 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. This product is for concrete subfloors only. Grinding of 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. Use of Titebond 531 over light weight concrete and all gypsum-based materials requires the use of an approved concrete primer prior to application of Titebond 531. 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.), apply Titebond 531. After it has cured, apply a 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 Titebond 531.

MOISTURE CONTENT LIMITATIONS

Gold Warranty Only: All applications are subject to moisture and should be tested for moisture prior to installation. Titebond 531 should be used on all concrete substrates where a calcium chloride reading is below 12 lbs./24 hours/per 1000 square feet. Concrete subfloors with a reading over 12 lbs. must be allowed to dry out prior to using Titebond 531. Do not install Titebond 531 on below-grade installations. There are no moisture content limitations when terms of the Platinum Warranty have been met. Refer to warranty section for complete details.

MOISTURE TESTING

Gold Warranty Only: All applications are subject to moisture and should be tested for moisture prior to installation. Moisture testing must be completed and recorded PRIOR to using the Titebond 531 for the Gold Warranty to be obtained. Concrete subfloor that exceeds 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) should be allowed to dry out before applying Titebond 531 unless terms of the Platinum Warranty have been met. Do not install Titebond 531 on below-grade installations. There are no moisture content testing or limitations when terms of the Platinum Warranty have been met. Refer to warranty section for complete details.

VENTILATION

Titebond 531 contains solvent. Positive cross ventilation is required at all times. Extinguish all pilot lights and flames prior to mixing or applying.

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 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 directly to a clean and dry surface. 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 also be used from a pan. 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, when using gallon size, 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 when the temperature is below 65°F. Temperatures below 65°F may lead to increased curing time. Additionally, applications below 65°F are subject to a phenomenon known as "blushing", which is an oily or waxy coating that can cover Titebond 531. If blushing occurs, it must be wiped with a solvent and allowed to dry. Follow solvent manufacturer's directions when working with solvents and other flammable materials. Do not apply Titebond 531 if temperatures exceed 100°F. Applications exceeding 100°F will result in the product curing too quickly, which may jeopardize the quality of the bond to concrete.

CURING TIME

Flooring may be installed over Titebond 531 after the product is tack free or about 4-6 hours at 70°F. Be aware that temperatures below 65°F may increase curing time. Do not attempt to install flooring over Titebond 531 after 72 hours. If installation is delayed beyond 72 hours, the subfloor must be lightly abraded using a buffer. Clean the floor thoroughly before applying adhesive.

CLEANUP

Fresh coatings and tools can be easily cleaned with mineral spirits. Follow solvent manufacturer's directions when working with solvents and other flammable materials.

WARNING. Flammable liquid and vapor. Harmful if swallowed or in contact with skin. Causes serious eye irritation. Causes skin irritation. Suspected of causing cancer if inhaled. May cause damage to organs (kidneys, liver, nervous system) if inhaled. May cause damage to organs (kidneys, liver, nervous system) through prolonged or repeated exposure if inhaled. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use only non-sparking tools. Protect against electrostatic charges. Keep container tightly closed. Do not breathe vapor. Do not eat, drink, or smoke when using this product. Prolonged or repeated contact may dry skin and cause irritation. Wash hands thoroughly after handling. Store in a cool, well-ventilated place. **FIRST AID:** IF EXPOSED OR IF YOU FEEL UNWELL: Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF SKIN IRRITATION OCCURS: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses and continue rinsing. IF EYE IRRITATION PERSISTS: Get medical attention. **FIRE:** Use water spray (fog), dry chemical, or CO₂. Cool containers with water spray. In case of major fire and large quantities, evacuate area. Fight fire remotely due to risk of explosion. Dispose contents and container in accordance with local, regional, national, 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 531 Moisture Control System and all Titebond flooring products can be obtained at www.titebond.com or by calling 1.800.347.4583.

Nap roller is only included in the Titebond 531 Gallon Kits.



VISIT WWW.TITEBOND.COM FOR THE MOST UP-TO-DATE PRODUCT INFORMATION



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