

531

MOISTURE CONTROL SYSTEM

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 sq. ft. 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, has a low odor 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.

- **REDUCES MOISTURE TRANSMISSION BY 75%-90%**
- **MOLD AND MILDEW RESISTANT**
- **ONE COAT COVERAGE**
- **COMPREHENSIVE WARRANTY APPLIES WITH PROPER ADHESIVE USE**

Features and Benefits

- Pre-measured portions to ensure proper mixing ratios
- Gallon size covers 400 square feet for gold warranty or 250 square feet for platinum warranty
- Quart size covers 100 square feet for gold warranty or 62 square feet for platinum warranty
- 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

Product Code	Size	Units Per Package	Weight	Packages Per Pallet
1286	1.1 Mixed Gallons Includes: 1 Gallon Metal Can (Hardener) 2 Gallon Plastic Pail (Resin)	1	13.23 lbs.	32
1285	1.0 Mixed Quart Includes: 1 Quart Metal Can (Hardener) 1/2 Gallon Metal Can (Resin)	1	3.67 lbs.	120



PHYSICAL PROPERTIES (TYPICAL)

Type: Epoxy	Calculated VOC: 98 g/L
Color: Clear	Weight/gallon mixed: 8.59 lbs.
Solids: 97%	Viscosity: 340 cps
Pot Life at 25°C: 30 min	Tack Free Time: 4-6 hours 70°C
Mix Ratio by Volume: 100:80	Mix Ratio by Weight: 100:69
Storage life: 1 year in tightly closed container	

Resin (Part A)	Resin (Part B)
Weight/Gallon: 9.18 lbs.	Weight/Gallon: 8.24 lbs.
Viscosity: 260 cps	Viscosity: 800 cps
Color: Clear	Color: Amber
VOC: 103 g/L	VOC: 84 g/L
Flash Point: 105-110°F	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 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 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 is 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 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 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.

CLEAN UP

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

CAUTION STATEMENT: WARNING. COMBUSTIBLE LIQUID AND VAPOR. VAPORS HARMFUL. Contains xylene. Keep away from heat, sparks, flame and other combustible materials. Use only with positive cross ventilation. Maintain ventilation until solvent dissipates. Do not use in confined areas. Use this product only if adequate ventilation can be used and maintained. Avoid breathing vapors. High vapor concentrations are irritating to the nose, throat, and respiratory system. Prolonged or repeated overexposure to solvents in product can cause central nervous system, peripheral nervous system, eye, skin, liver, kidney or respiratory system effects. Causes eye and skin irritation. Causes eye and skin irritation. May be absorbed through the skin. May cause allergic skin reaction. Harmful if swallowed. As when working with any solvent based material, appropriate personal protective equipment, including gloves, should be worn. **FIRST AID:** If dizziness or respiratory difficulty occurs, remove to fresh air. Seek medical attention if breathing difficulty continues. If swallowed, do not induce vomiting. Seek medical attention immediately. If eye contact occurs, flush eyes with water for 15 minutes and consult physician. For skin contact, wash with soap and water. Seek medical attention if irritation persists. For additional information, refer to Material Safety Data Sheet. **KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY.**

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.

TITEBOND.COM

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