

531 PLUS

2 Component Epoxy Moisture Control System

- **Fast Cure, Same Day Installation**
- **For Wood & Resilient Flooring Over Concrete**
- **Zero VOCs - Low Odor**
- **One Coat Application for Total Protection**
- **No Moisture Limitation**

FEATURES AND BENEFITS

- Cure time is 1.5 to 2 hours at 70 °F
- 10-year residential warranty;
5-year commercial warranty
- No slab testing required for wood installations
- No moisture limitation for wood installations
- Mold and mildew resistant
- VOC-compliant with all federal and state regulations including SCAQMD
- Meets Green Building Standard 189,
GBI-Green Globes Design Standard, NAHB/ICC
National Green Building Qualifications

ORDERING INFORMATION

- Quart Kit / 1 Unit Per Package
3.31 lbs. / 120 Packages Per Pallet
Product Code: 1295*
- Gallon Kit / 1 Unit Per Package
11.82 lbs. / 44 Packages Per Pallet
Product Code: 1296

* Roller and wet film gauge not included in quart unit

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 100% coverage over concrete and with recommended wood flooring and resilient flooring adhesives, Titebond 531 PLUS is fully warranted. It dries fast and is tack-free in less than two hours under most conditions, allowing for same-day installation of flooring. The product has low odor and eliminates the need for bead blasting or other inconvenient measures. It has zero VOCs, 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 a cost-effective, convenient system designed to reduce concrete subfloor moisture transfer to wood and resilient flooring.

REQUIRED ADHESIVES - For engineered wood flooring, use Titebond 811 Advantage, Titebond 821-Step, Titebond 741 or Titebond 771-Step / For bamboo and solid wood flooring, use Titebond 821-Step or Titebond 771-Step / For resilient flooring, use resilient manufacturer's recommended adhesives or Titebond equivalent

**FAST
CURE**

**LOW
ODOR**

**ZERO
VOC**



Titebond®
THE PRO'S ADVANTAGE™

PHYSICAL PROPERTIES (MIXED)

- **Type:** Epoxy
- **Color:** White
- **Pot life at 25°C:** 30 min
- **Mix ratio by volume:** 100:17.6
- **Tack free time:** 2 hours 70°C
- **Storage life:** 4 years in tightly closed container
- **Calculated VOC:** 0 g/L
- **Weight/gallon:** 9.14 lbs.
- **Viscosity:** 1,000 cps
- **Mix ratio by weight:** 100:17.5

RESIN (Part A)

- **Weight/gallon:** 9.12 lbs.
- **Viscosity:** 70 cps
- **Color:** White
- **VOC:** 0 g/L
- **Flash point:** >201°F

HARDENER (Part B)

- **Weight/gallon:** 9.26 lbs.
- **Viscosity:** 4,100 cps
- **Color:** Amber
- **VOC:** 0 g/L
- **Flash point:** >201°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 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. Titebond 531 Plus should be used on top of any filling/flattening materials after they are fully cured. Use of Titebond 531 PLUS over light weight concrete and all gypsum-based materials requires the use of Titebond Concrete Primer or an approved concrete primer prior to application of 531 PLUS. Remove all existing base, shoe molding and door thresholds prior to continuing the installation.

For the installation of resilient flooring products (vinyl, VCT, etc.), apply Titebond 531 PLUS. After it has cured, apply a 1/4 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 of 531 PLUS.

Titebond 531 PLUS may be used on above-grade applications and on all substrates listed in this specification guide.

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. The concrete subfloor must be 30 days old. Refer to warranty at www.Titebond.com for complete details.

VENTILATION

Ventilation 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 one coat of 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). Use included mil thickness gauge to verify coating thickness. 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 three sections and use 1/3 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. Temperatures above 85°F will accelerate curing. Cool down part A before mixing.

CURING TIME

Flooring may be installed over Titebond 531 PLUS after the product is tack-free or after 1.5 to 2 hours at 70°F. At lower temperatures, air movement will help to speed curing. For questions, call Franklin Technical Service at 1.800.347.4583.

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. Cured material is extremely difficult to remove.

DANGER: Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. Wear protective gloves, and eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. **FIRST AID: IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. **IF SKIN IRRITATION OR RASH OCCURS:** Get medical attention. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove any contact lenses and continue rinsing. Immediately call a POISON CENTER or physician. Dispose of contents and container in accordance with all local, regional, national and international regulations. For additional information, refer to Safety Data Sheet. **KEEP OUT OF 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 PLUS and all Titebond flooring products can be obtained at www.Titebond.com or by calling 1.800.347.4583.

**FAST
CURE**

**LOW
ODOR**

**ZERO
VOC**

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



Franklin International

Columbus, Ohio 43207

614.443.0241

Technical Service 1.800.347.4583

© 2021 00325-5492LN FF947