

DESCRIPTION: META-TEC[®] MS PLUS WOOD FLOORING ADHESIVE

Taylor MS Plus Wood Flooring Adhesive with Meta-Tec[®] Technology, is a one component 100% solids, cross linking, MS polymer-based adhesive formulated for the interior installation of wood block parquet, engineered wood plank, acrylic impregnated plank, bamboo, and pre-finished and unfinished solid wood flooring. Taylor MS Plus also has good concrete moisture inhibition capability as well as good sound reduction properties that meets the IIC and STC building code requirements. It is solvent free and isocyanate free, has negligible VOC content, contains no hazardous chemicals as per OSHA Regulation CFR 1910.1200 and is a nonflammable low odor adhesive that meets all Federal, State, and local governmental indoor air quality regulations. This specially formulated adhesive has good early strength buildup for immediate grab and quickly builds into a tenacious but elastic resilient bond as the adhesive cross-links.

Taylor MS Plus can be used over APA grade underlayment plywood, association grade particleboard, cork underlayments, existing well-bonded vinyl tile and sheet flooring, terrazzo, cementitious and anhydrite screeds, concrete and radiant heated subfloors where surface temperatures do not exceed 85°F (30°C). Install above, on, or below grade, in the absence of excessive moisture. While this adhesive is waterproof when cured, the wood flooring still must be protected from excessive moisture. Moisture levels of concrete **must be below 3 lbs. per 1,000 square feet per 24 hours** (1.36 kg per 92.9 m² per 24 hours) using an anhydrous calcium chloride test kit according to ASTM F-1869 test method. An alternative method is to check the moisture content throughout the entire thickness of the subfloor with a properly calibrated carbide or electric hygrometer. The moisture content must be within the limits recommended by the wood flooring manufacturer, generally a maximum of 75% RH. Follow wood flooring manufacturer's guidelines for allowable levels of moisture. Wood underlayments must have moisture content below 12% using a Tramex or Delmhorst wood moisture meter. For concrete slabs with excessive moisture levels up to 10 lbs. per 1,000 square feet per 24 hours using an anhydrous calcium chloride test kit according to ASTM F-1869 test method, use a precoat of MS Plus prior to installing wood.

SUBSTRATE PREPARATION:

Substrate must be sound, smooth, level, clean and dry. It must be free of dust, dirt, wax, loose paint, incompatible curing compounds or fire retardant chemicals, fungicides, release agents, sealers, or any other foreign substances that might interfere with a good bond. Substrate must be level to 3/16" in a 10 ft span (5mm in a 3m span). Note: When installing thin gauged wood (solid or engineered) irregular substrates may telegraph through as adhesive pulls wood down during curing stages. Therefore, substrates must be properly leveled to prevent telegraphing. Fill all cracks, holes and low spots with polymer modified cementitious compound and allow to fully cure per manufacturer's instructions before applying adhesive. High spots must be ground level. Substrate, adhesive and wood flooring must be acclimated in an enclosed building with the HVAC operational and running for at least 72 hours before, during and after the installation. The installation temperature and relative humidity must be controlled between 60°F (15°C) and 85°F (30°C), and between 30% and 65% relative humidity, subject to the floor manufacturer's requirements. Open time will vary with temperature and humidity or porosity of the substrate. **Note:** Wood flooring must be exposed to the air when being acclimated. However, follow the wood flooring manufacturer's guidelines regarding site conditions and installation.

TROWEL RECOMMENDATIONS:

Flooring Product	Trowel Size* and Notch	Coverage
All solid wood and engineered wood, bamboo, and all thickness pre-finished or unfinished	3/16" x 1/4" x 1/2" flat V 4.8mm x 6.4 mm x 12.7mm	60 to 80 sq. ft./gal 1.5 to 2.0 sq. meters/liter
Dry-back wood parquet	1/8" x 1/8" x 1/8" square 3.2 mm x 3.2 mm x 3.2 mm	60 to 80 sq. ft./gal 1.5 to 2.0 sq. meters/liter
Moisture inhibitor and sound reducer application	3/16" x 5/32" sawtooth 4.8mm x 4.0mm	50 to 60 sq. ft./gal 1.2 to 1.5 sq. meters/liter

*Trowel dimensions are width x depth x spacing.
Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held.

Note: For 2 coat application process, coverage will be 25-30 sq. ft/gal

WOOD INSTALLATION:

1. Follow wood flooring manufacturer's guidelines for layout, design and any special precautions for installation.
2. Spread adhesive using recommended trowel (see trowel recommendation chart). Install wood flooring immediately after adhesive is spread. Working time is approximately **50-60 minutes** under acceptable temperature and humidity conditions. Adhesive must transfer 100% to the wood floor. NOTE: thin-gauged solid and engineered wood and exotic species are very sensitive to job site conditions. Wood flooring manufacturer and Taylor written pre-installation and installation instructions must be strictly followed or the Taylor warranty will be void.
3. Lay wood flooring into adhesive. Wood may slip and move at first, so be sure to secure the initial row to limit movement and hold patterns. Occasionally lift a piece of wood to assure adhesive is achieving 100% transfer. If proper transfer is not achieved, remove dried adhesive and apply more using recommended trowel. The use of tape to temporarily hold the edges together may be necessary until installation is complete.
4. When installing near a solid object or wall, leave ample room for expansion (see flooring manufacturer's recommended expansion guidelines). Installing wood too tight against a stationary object will not allow room for normal wood expansion, which may cause a failure. When the installation is complete, use wedges or some object to hold wood in place while adhesive dries. Remove wedges after initial setting of adhesive (approximately 2 hours) to allow for normal expansion of wood. Failure to remove wedges can cause the wood flooring to buckle and pop off the substrate.
5. Roll and cross roll floor with a 100-150 lb. (45.36-68.04 kg) roller at the end of the installation to ensure proper transfer of adhesive.
6. When installing unfinished wood flooring, wait a minimum of 72 hours before sanding.
7. When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and 24 hours after installation. Failure to turn the heat off may result in shortened working time of the adhesive. Floor temperature must not exceed 85°F (30°C).
8. Restrict light traffic for a minimum of 16 hours. Restrict heavy traffic for a minimum of 24 hours after installation is complete.
9. While this adhesive is freeze-thaw stable it is necessary to protect it from freezing.

MOISTURE INHIBITION AND SOUND REDUCTIONS INSTALLATION INSTRUCTIONS:

Using the 3/16" x 5/32" sawtooth trowel apply Taylor Meta-Tec® MS Plus Wood Flooring Adhesive over the entire installation area. Allow inhibitor film of adhesive to dry a **minimum of 4 hours** prior to proceeding with the wood installation. The adhesive for the wood installation should be applied with the recommended trowel in a swirling motion so as to fill the gaps present in the dried inhibitor film of the adhesive and leave a new trowel ridge to set the wood into. Complete the installation using the standard wood installation procedures described above.

PHYSICAL PROPERTIES

VOCs:	Less than 0.50 grams per liter
Appearance:	Off white, smooth, easy-to-spread mastic.
Working time:	Approximately 60 minutes, depending on job site conditions.
Shelf life:	One year in unopened container at 70° F (21.10°C).
Other features:	Waterproof when cured, non-flammable. Freeze/thaw stable to 10° F (-12.22°C).
Clean Up:	Clean up with Taylor Touchdown #9 Adhesive Remover/Stripper.

CAUTION

DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

WARRANTY INFORMATION

This product is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, expressed or implied, is made regarding the performance of this product since the manner and conditions of application are beyond our control. For complete warranty information, call Technical Services at 800-868-4583 ext 221; visit us on the web at www.wftaylor.com; or e-mail us at info@wftaylor.com.

TAYLOR MS PLUS

MATERIAL SAFETY DATA SHEET

SECTION I IDENTIFICATION

Manufacturer's Name: W.F. Taylor Co., Inc.
Address/Phone: 11545 Pacific Ave.
Fontana, CA 92337
951.360.6677
Emergency Phone No.: 800.535.5053
Manufacturer's Code Identification: MS Plus
Product Class: MS Polymer-Resin Blend
Trade Name: MS Plus Wood Flooring Adhesive
Date Revised: 06/05/08

SECTION II HAZARDOUS INGREDIENTS

None per OSHA Regulation: 29 CFR 1910.1200
SARA Title III Section 313 Chemicals: None
NFPA **HMIS**
H = 1
F = 0
R = 0

SECTION III PHYSICAL DATA

Boiling Point: No Data
Lbs/Gal: 13.9.-14.2
Evaporation Rate/Vapor Density: Low
Vapor Pressure: Low
Percent Volatile: 0 (by weight) 100% solids
Color: Off White
Odor: Mild
Grams V.O.C. per liter of material: Less than 0.50 grams

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point, Pensky-Marin C.C.: NA
Auto Ignition Temperature, Degrees F: NA
LEL: NA **UEL:** NA
Extinguishing Media: Water spray, CO₂, foam, dry chemical
Unusual Fire and Explosion Hazards: None Known
Special Fire Fighting Procedures: Use self-contained breathing apparatus and turn out gear. Water may be ineffective but should be used to keep the exposed containers cool.

SECTION V HEALTH HAZARD DATA

Symptoms of Over Exposure:
Eyes: vapor may cause irritation
Skin / Inhalation: may cause slight irritation
Ingestion: May cause vomiting. Symptoms may be the same as inhalation.
First Aid Procedures:
Eyes: Flush with water
Skin: Wash with soap and water
Inhalation: Remove to fresh air. Administer oxygen if necessary.
Ingestion: if swallowed, call Physician

SECTION VI REACTIVITY DATA

Stability: Stable
Conditions to avoid: Protect from freezing, excessive heat
Incompatibility/Materials to avoid: Metal salts may coagulate the product
Hazardous decomposition products: oxides of carbon, water, and organic compounds of unknown structures
Hazardous polymerization: Will not occur

SECTION VII SPILL OR LEAK PROCEDURES

Steps to Be Taken if Material is Spilled: Keep out of sewer systems to prevent blockage due to polymer deposits. Scrape up to collect and place into closed containers for disposal.
Waste Disposal: Abide by all Federal, State, and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory protection: NIOSH respirator if needed
Ventilation: Local exhaust
Protective gloves: Chemical resistant gloves, apron, coveralls and boots as necessary to prevent contact
Eyes: Chemical goggles or face shield
Other protective equipment: If clothing becomes contaminated, remove and clean before wearing again.

SECTION IX SPECIAL PRECAUTIONS

Precaution for Handling and Storing: Protect against physical damage. Store in a cool, dry place (50-90F). Keep away from heat and sparks. Keep from freezing. **KEEP OUT OF REACH OF CHILDREN**

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