



NEW MILLENNIUM 2009 PREMIUM WOOD FLOORING ADHESIVE

ENVIRONMENTAL/PERFORMANCE:

Millennium Series 2009 Premium Wood Adhesive formulated with all the features that are necessary for successful installations of engineered wood flooring and domestic species solids.

- QUAD-POLYMERIC Formula
- LEED COMPLIANT, CONTRIBUTES TO VALUABLE LEED POINTS
- CHPS 01350 COMPLIANT
- Installer Friendly - *trowels exceptionally easy*

PRODUCT DESCRIPTION:

Millennium Series 2009 is the ultimate engineered wood-flooring adhesive, that can be used to install domestic species solids (i.e., oak, maple, hickory, ash etc.). It is formulated with a proprietary QUAD-POLYMERIC formula for installing all wood flooring widths and thickness. Extremely user-friendly, easy to trowel, maintains very good open time and cleans up with Mineral Spirits

Millennium 2009 can be used over a wide variety of sub-floors: on or above grade concrete, properly prepared lightweight concrete, terrazzo, plywood, OSB (including AdvanTech OSB), properly prepared sheet vinyl, vinyl tile, ceramic tile and radiant heated sub-floors.

**DO NOT USE to install Bamboo, Exotic species, Teakwood.
DO NOT USE this adhesive with UMB 3000. Adhesion failure will occur.**

SUB-FLOOR PREPARATION:

The following are approved sub-floors for using Millennium 2009 adhesives and specific preparation procedures for various sub-floors. NOTE: All sub-floors must be smooth within 3/16" in 6' and structurally sound, clean, dry, smooth, and free of dust, wax, oils, paint, curing agents and any other contaminants that would interfere with a good bond. The pH levels of concrete should be between 7 and 9. Follow wood flooring manufacture's guidelines for allowable levels of moisture.

Concrete: Must be smooth within 3/16" in 6'. Fill all cracks, holes, low spots with Portland based polymer modified cementitious patching compound (i.e. Parabond Micro Finish or PP+) or leveling compound (i.e. Parabond PFU) and allow to fully cure before applying adhesive. Low spots must be filled and leveled and high spots must be ground

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to meet these specifications. Sudden dips or high spots in the concrete must be corrected prior to installation, in order to prevent hollow areas after the floor is installed. The concrete moisture emissions must be within the wood flooring manufacturers specifications (conduct tests per the wood manufacturer's recommendations). Concrete must be cured a minimum of 30 days.

Terrazzo: Sanding is required to remove all sealers, polish and wax. After sanding, vacuum and clean with Mineral Spirits. Allow the Mineral Spirits to completely dry before starting the installation.

Wood Type Sub-Floors (Plywood, OSB and AdvanTech): Existing squeaks or loose spots in the sub-floor must be eliminated by screws or nailing. High joints or dips must be eliminated by sanding and/or patching prior to installation.

Sheet Vinyl: Non-cushion backed sheet vinyl is an acceptable substrate if properly prepared. It must be securely fastened to the sub-floor with full spread adhesive (perimeter glued sheet vinyl is NOT an acceptable substrate for installing wood flooring). Lightly sand the surface to remove the glaze, vacuum and clean with Mineral Spirits after sanding. Allow the Mineral Spirits to completely dry before starting installation.

Vinyl Tile: All tiles must be securely bonded to the sub-floor. Light sanding is required to ensure proper bond. Vacuum and clean with Mineral Spirits after sanding. Allow Mineral Spirits to completely dry before starting installation.

Radiant Heated Sub-Floors: Prior to installing the wood flooring, lightweight concrete radiant heated sub-floors must be sealed with a heavy coat of acrylic primer such as Parabond M-620 to harden the surface. Turn heat off prior to installation. Heat can be turned back on 48 hours after installation.

Lightweight Concrete: Millennium 2009 wood adhesive can be used over lightweight concrete or gypcrete provided the substrate is solidified and sealed with Parabond M-620 primer. Mix Parabond M-620 Primer 1:1 with water for the first coat, then apply 2nd coat of M-620 without water.

INSTALLATION:

1. The trowel requirements on this label supersedes all wood manufactures trowel recommendations.
2. Always refer to the wood flooring manufacturers for sub-floor moisture requirements and testing procedures before proceeding with the installation. In every instance Millennium 2009 adhesive will tolerate more sub-floor moisture than the wood flooring will tolerate. Therefore, for maximum sub-floor moisture, refer directly to the instructions provided with the wood.
3. Do not spread more adhesive than can be covered within 50 minutes.

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CLEAN-UP:

Clean up with Mineral Spirits. This adhesive will be easier to remove, if not allowed to completely dry.

CAUTION: Mineral Spirits is flammable. Read and follow all precautions on container label.

WARRANTY:

Para-Chem warrants that Millennium 2009 wood flooring adhesive will bond engineered wood flooring and domestic species solid wood flooring to concrete, terrazzo, plywood, OSB, AdvanTech OSB, vinyl tile, sheet vinyl, radiant heated, and properly prepared lightweight concrete to the sub-floor for a period equal to the wood flooring manufacturer's product warranty. This product is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, express or implied, is made regarding the performance of this product; conditions of application are beyond Para-Chem's control. [This warranty is exclusive to the original purchaser of the installation, and may not be assigned or transferred.]

In the event of a bond failure due to defective or out-of-spec adhesive, Para-Chem will offer a one-time replacement of material and reasonable labor to replace the portion of the floor that has failed due to the adhesive.

Hollow spots are not an indication of adhesive failure, but are due to uneven sub-floors (especially on concrete sub-floors). To prevent hollow areas the sub-floor must be leveled prior to installation. Random hollow areas are specifically excluded for this warranty.

Swelled, buckled, stained or cupped wood floors are not an indication of adhesive failure; but, are a direct result of excessive moisture entering the wood, either from the sub-floor or the environment. Buckled, stained and cupping to the wood flooring are excluded from this warranty as they are jobsite moisture related.

In the vast majority of applications there will be no cupping or any other effects to the wood flooring from the small amount of moisture in the adhesive. However, in the event cupping does occur on "thin gauge solids" (5/16" or 3/8") it will start to diminish within 36 hours and completely disappear within a few days. In the unlikely event cupping occurs, there is no need for alarm. When the moisture evaporates the boards will return to their normal contour, provided excess subfloor moisture is not present. Cupping due to excessive subfloor moisture is not covered in this warranty.

Para-Chem specifically excludes and is not liable for any other damages or loss, including consequential or incidental damage or loss.

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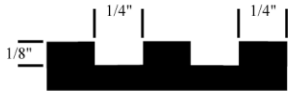
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WARRANTY CONTINGENCIES:

1. The installation must be in full compliance with the wood manufacturers recommendations and in full compliance with Millennium 2009 instructions.
2. Para-Chem is provided an adequate opportunity for an on site evaluation and/or subsequent testing of a potential claim prior to any repair or replacement. Failure to do so will release Para-Chem of any financial obligation to the claim.

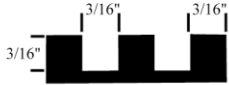
TROWEL REQUIREMENTS AND SPREAD RATES:

For engineered plank up to 5" wide, up to 1/2" thick
Use: 1/4" width x 1/8" depth x 1/4" space square notch trowel provided the sub-floor is smooth. This trowel can also be used for solids 3/8" or thicker.



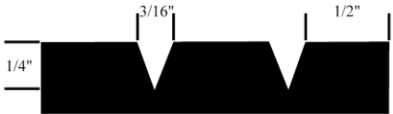
Spread rate approx. 50 sq. ft. per gallon

For engineered plank wider than 5" and thicker than 1/2"
Use: 3/16" x 3/16" x 3/16" square notch trowel.



Spread rate approx 40 sq. ft. per gallon

For Thin Solids up to 3/8", **excluding exotic species, Bamboo and Teak.**
use 3/16" width x 1/4" depth x 1/2" space V-notch trowel.



Spread rate approx 60 sq. ft. per gallon

THE FLOOR DOES NOT NEED TO BE ROLLED.

The above trowel recommendations are critical to a successful installation. The use of a non-recommended trowel would void all warranties associated with this adhesive.

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MATERIAL SAFETY DATA SHEET

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Para-Chem[®], PO Box 127, Simpsonville, SC 29681

24-Hour Emergency Telephone: (864) 967-7691

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: Millennium Series 2009

CHEMICAL FAMILY: Water Base Adhesive

SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
None requiring reporting.				

SECTION 3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Eyes, Skin, Inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Can cause slight irritation.

SKIN CONTACT: No effects expected.

INGESTION: May cause discomfort to digestive system.

INHALATION: No effects expected.

CHRONIC: None known.

CARCINOGENICITY: This product contains no ingredient above the OSHA minimum reporting threshold listed as a carcinogen by IARC, NTP, or OSHA.

SECTION 4. FIRST AID MEASURES

EYE CONTACT: Immediately flush with water for 15 minutes. Call physician if irritation occurs.

SKIN CONTACT: Wash with soap and water.

INGESTION: Do not induce vomiting and call physician immediately.

INHALATION: Move person to fresh air.

SECTION 5. FIRE-FIGHTING MEASURES

FLASH POINT (°)F: None.

FIRE-FIGHTING INSTRUCTIONS: Water for dried material. Use protective clothing and self-contained breathing apparatus.

DECOMPOSITION PRODUCTS: Dried material may produce CO, CO₂, H₂O, and hydrocarbons.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Place back into container for use if uncontaminated. For contaminated product, scoop material into secure waste container. Dispense sand, sawdust, or vermiculite onto residue, collect and place in waste container. Wash area thoroughly with water.

SECTION 7. HANDLING AND STORAGE

HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Product will adhere to skin and clothing. Keep away from children.
STORAGE: Store above 40° F. Freeze-thaw stable up to five cycles at 10° F.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Wear safety glasses if contact with material is likely.

SKIN PROTECTION: Wear leather or rubber gloves where contact with material is likely.

RESPIRATORY PROTECTION: Not normally required with good ventilation.

ENGINEERING CONTROLS: Normal room ventilation. Open doors and windows, use floor and ceiling fans to ventilate work area during application.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (°F): 212

SPECIFIC GRAVITY (WATER = 1): 1.17

VAPOR PRESSURE: Same as water.

VAPOR DENSITY (air=1): Same as water.

% VOLATILE BY WEIGHT: 15.5

pH: 8.6

APPEARANCE AND ODOR: Tan colored paste with mild odor.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS: None.

SECTION 11. TOXICOLOGICAL INFORMATION

No information available.

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