



## 2002 PREMIUM ENGINEERED WOOD ADHESIVE

### ENVIRONMENTAL/PERFORMANCE:

1. Solvent-Free - VOC Compliant
2. Wetlay Application – Do Not Roll
3. Trowels easily.

### DESCRIPTION:

Millennium Series 2002 Premium Engineered Wood Adhesive was developed with the installer in mind. It incorporates Para-Chem's proprietary "Titan" Acrylic-Urethane Polymers for a premium quality bond. It was designed specifically for gluing down most engineered plank, and wood floors. 2002 is approved for gluing down felt back moisture barrier (slip sheets).

From an installers point of view, it saves time and money, because it is a wet lay product that reduces installation time up to 50% over "flushed systems". No rolling is required.

**2002 is Not recommended for solid strip flooring products, bamboo, or teak.**

2002 is approved for use over a wide range of sub-floors: concrete, terrazzo, plywood, OSB, underlayment grade particle board, sheet vinyl and vinyl tile, ceramic tile and radiant heated sub-floors are acceptable substrates when properly prepared. 2002 is also approved for gluing down cork underlayment.

### APPROVED SUB-FLOORS & PREPARATIONS:

The following are approved sub-floor applications and general preparation procedures required to insure successful installations. All sub-floors must be structurally sound, clean, dry, smooth, and free of dust, wax, oils, paint, and curing agents, and other contaminants that would interfere with a good bond.

**Concrete:** Level within 3/16" in 6 feet. Use portland cement type floor patch to fill all low spots that exceed 3/16" in 6 feet, and grind any high spots. From an adhesion perspective, smooth slopes in concrete sub-floors are generally not as big a problem as sudden dips and high spots. Sudden dips and high spots must be corrected prior to installation to prevent loose or hollow spots after installation. New concrete must be fully cured with heating and cooling systems in operation prior to installation.

We require that moisture tests be performed on all concrete sub-floors regardless of grade level or whether or not the concrete is freshly poured or is classified as an older slab. Moisture testing should be performed by ASTM F 1869 Calcium Chloride Tests with moisture levels not to exceed the Wood Manufacturer's recommendation for the wood flooring.

**Ceramic Tile:** Tiles must be securely fastened to the sub-floor. The surfaces of the tile must be roughened up with a sander or grinder.

**Terrazzo:** Light sanding of the surface is required to ensure proper bond. **Never Sand Asbestos Containing Products.** Clean the surface with Mineral Spirits after sanding and allow to dry before starting the installation.

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### **Sheet Vinyl**

The most desirable method of installing over vinyl is to cover it by stapling down a thin layer of plywood. However, vinyl is an acceptable sub-floor if properly prepared. It must be securely fastened to the sub-floor with a full spread adhesive otherwise sheet vinyl must be removed. Perimeter glued or loose laid sheet goods are Not acceptable substrates for gluing down wood floors. Light sanding of existing vinyl surface is required to ensure proper bond. **Never Sand Asbestos Containing Products.** Clean the surface with Mineral Spirits after sanding and allow to dry before starting installation.

**VCT Tile:** All tiles must be securely bonded to the sub-floor. Light sanding of the surface is required to ensure proper bond. **Never Sand Asbestos Containing Products.** Clean the surface after sanding with Mineral Spirits and allow to dry before starting installation.

**Wood Substrates:** Acceptable wood/wood composite sub-floors include plywood, underlayment grade particleboard, OSB, tongue and grooved boards. Existing squeaks or loose spots in the sub-floor must be eliminated before spreading adhesive. High joints or sudden dips in the sub-floor must be eliminated by sanding or patching prior to installation.

**NEVER USE 2002 WOOD FLOORING ADHESIVE OVER CUTBACK ADHESIVES.**

**NEVER USE 2002 WOOD FLOORING ADHESIVE TO INSTALL TEAKWOOD.**

**NEVER USE 2002 WOOD FLOORING ADHESIVE TO INSTALL BAMBOO.**

**NEVER USE 2002 WOOD FLOORING ADHESIVE TO INSTALL SOLID STRIP FLOORING.**

### **TROWEL SIZE REQUIREMENTS AND SPREAD RATES:**

**For engineered plank 1/4" to 5/16" thick use**

**1/8" Square notch only**

Spread rate is 50-55 sq. ft. per gallon.

**For Engineered plank 4" wide and thicker than 5/16" use:**

**3/16" Square notch only**

Spread rate is 35-40 sq. ft. per gallon.

**Use Millennium Series 2004 or 2007 for gluing down engineered plank wider than 4". Both 2004 and 2007 are better products for gluing down the wider engineered plank products.**

**NEVER USE V-NOTCH TROWELS**

### **INSTALLING THE FLOOR:**

1. Refer to wood flooring manufacturer's recommendation for appropriate sub-floor moisture levels, floor layout and expansion space requirements.
2. After a starting chalk line is established spread a run 24" wide section .
3. Start installing the floor immediately.
4. Never spread more adhesive than can be covered within 45 minutes.

**2002 IS A WETLAY ADHESIVE SYSTEM, DO NOT FLASH OR ALLOW THE ADHESIVE TO PARTIALLY CURE BEFORE STARTING THE INSTALLATION. DO NOT ROLL THE FLOOR.**

5. Restrict foot traffic or moving heavy objects back onto the newly installed floor for at least 6-8 hours.

### **CLEAN-UP:**

Water when wet, or Mineral Spirits when dry. Follow solvent manufacturer's precautions when using solvents.

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

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**PHYSICAL PROPERTIES:**

Weight/Gallon(lbs) 9.8  
Freeze Thaw 5 cycles at 0°F  
Consistency Smooth, creamy paste

**CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:**

Solvent Free Product.

SCAQMD Rule 1168: VOC compliant.

SCAQMD Rule 443.1: Grams of VOC per Liter of Material < 6 grams/liter.

Grams of VOC per Liter of Coating < 8 grams/liter.

FOR MORE INFORMATION READ THE MATERIAL SAFETY DATA SHEET

KEEP OUT OF REACH OF CHILDREN

**WARRANTY:**

Para-Chem warrants that the 2002 Adhesive will bond the approved wood flooring products listed below to concrete, terrazzo, sheet vinyl, vinyl tile, plywood and OSB for a period of 7 years. This warranty is exclusive to the original purchaser of PARABOND 2002 Adhesive and may not be assigned or transferred.

In the event of a warranty claim, Para-Chem will pay for one time replacement of the portion of the installation that is defective. This includes all reasonable materials and labor. Para-Chem specifically excludes and is not liable for any other damage or loss, including consequential or incidental damage or loss. Para-Chem is not responsible for workmanship not in compliance with published 2002 literature. The above warranty does not include foreign produced wood flooring products or the high-pressure (plastic-type surface) floorings without prior testing and authorization from Para-Chem.

# MATERIAL SAFETY DATA SHEET

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Para-Chem<sup>®</sup>, PO Box 127, Simpsonville, SC 29681

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

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## SECTION 1. PRODUCT IDENTIFICATION

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PRODUCT NAME: Millennium Series 2002  
CHEMICAL FAMILY: Water Based Adhesive

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## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

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

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## SECTION 3. HAZARDS IDENTIFICATION

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PRIMARY ROUTES OF ENTRY: Eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: May cause slight irritation.

INGESTION: May cause stomach pain and discomfort.

INHALATION: May cause slight respiratory irritation.

CHRONIC: None known.

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

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## SECTION 4. FIRST AID MEASURES

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EYE CONTACT: Flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN CONTACT: Wash with soap and water.

INGESTION: Do not induce vomiting. Contact a physician.

INHALATION: Remove to fresh air.

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## SECTION 5. FIRE-FIGHTING MEASURES

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FLASH POINT (°)F: None.

LOWER FLAMMABLE LIMIT: None.

UPPER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.

DECOMPOSITION PRODUCTS: Dried material when combusted will produce CO, CO<sub>2</sub>, NO<sub>x</sub>, and hydrocarbons.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill. Scoop or shovel spill material into secure container(s) for recovery or disposal. Dispense sand, sawdust, or vermiculite and absorb spill residue. Collect and place in waste container. Wash area thoroughly with water.

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## SECTION 7. HANDLING AND STORAGE

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HANDLING: Use good hygienic practices. Wash hands before eating, using washroom or smoking. Keep out of the reach of children.

STORAGE: Store above 40° F. Freeze-thaw stable up to five cycles at 20° F.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Safety glasses with side shields or splash goggles where splash potential exists.

SKIN PROTECTION: Impervious rubber gloves .

RESPIRATORY PROTECTION: Not normally required with good ventilation.

ENGINEERING CONTROLS: Normal room ventilation. In enclosed areas where vapors can concentrate during application; open windows, doors, and vents with use of fans is recommended.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT (°F): 212

SPECIFIC GRAVITY (WATER = 1): 1.18

VAPOR PRESSURE: Same as water.

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

% VOLATILE BY WEIGHT: 16

pH: 8.4

APPEARANCE AND ODOR: Tan paste with mild pleasant odor.

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## SECTION 10. STABILITY AND REACTIVITY

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CHEMICAL STABILITY: Stable.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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No information available

