



## TECHNICAL DATA SHEET

PUR FLOOR® Moisture Cure Polyurethane Wood Floor Adhesive  
For Professional Use Only

Prepared: Dec. 12, 2006

### PRODUCT DESCRIPTION AND USES

PUR FLOOR® is a state of the art moisture cure polyurethane adhesive for installing all types of wood floors.

PUR FLOOR® has no water and is VOC compliant. It combines superior ridge retention, powerful bond strength, and ease of troweling, and is ideal for glue-down installations in all grades of all types of engineered, solid or acrylic impregnated wood flooring to all subfloors common to wood flooring. PUR FLOOR® is recommended **for professional use only** and can be applied over the following subfloors: concrete, plywood, OSB, vinyl tile, vinyl sheet, terrazzo, and ceramic. PUR FLOOR® does not require rolling and when it is cured, it maintains the necessary elasticity to allow for normal expansion and contraction of wood.

PUR FLOOR® can also be used to bond ceramic tile, marble and stone inlays.

### PUR FLOOR® WOOD FLOOR ADHESIVE

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Trowels Easily

Great Green Strength

Suitable for Exotic Wood & Radiant Heat Floor Installation

Excellent Ridge Retention

VOC Compliant

Mild Odor

No Water

### SUBFLOOR PREPARATION

PUR FLOOR® can be used over the following subfloors: concrete, plywood, OSB, vinyl tile, vinyl sheet, terrazzo, and ceramic. If the type of subfloor that you want to apply PUR FLOOR® to is not listed above, please contact a DURA PRO™ representative for instructions. Mechanical surface profiling is the preferred subfloor preparation method. It is the only acceptable method where warranties are issued. Acid etching is not recommended. Shotblast the floor to medium grip sandpaper texture to remove curing and parting compounds, other surface hardeners and floor coatings. Ensure that the subfloor is structurally sound, smooth, dry, properly cured, clean and free from dust, dirt, grease, oil, plaster, paint, old adhesive, wax, curing agents, sealers, cutback or other asphaltic based residue, and any other contaminants that could interfere with a good adhesive bond. For application of PUR FLOOR® over ceramic tiles, it is necessary to grind the tile surfaces and clean thoroughly with an industrial vacuum cleaner.



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To minimize the potential for hollow spots it is important that the subfloor be smooth and level. Before starting the installation, carefully check that the subfloor is level. Eliminate all dips and crowns that exceed 1/8 in a 10 feet radius by patching or sanding/grinding. Do not use PUR FLOOR® as a leveling agent. Where needed, use Portland Cement based patching and leveling compounds. Repair all cracks in the subfloor that are greater than 1/8 before applying PUR FLOOR®.

PUR FLOOR® will not prevent moisture related damage to wood flooring installations. Regardless of the moisture level of the subfloor, it is recommended that a moisture vapor barrier coating be applied before the application of PUR FLOOR®.

Newly poured concrete must be cured for a minimum of 28 days before application of PUR FLOOR®. Moisture tests must be performed on all concrete subfloors regardless of grade level, whether the concrete is freshly poured or is an older slab. Moisture testing should be performed according to ASTM F-1869, Calcium Chloride Test. Moisture levels should not exceed 3 lb/1000 sq. ft. for 24 hours.

**NOTE:** Do not apply PUR FLOOR® on slabs with a history of extreme and problematic moisture conditions or on slabs with obvious visual dampness or moisture. Do not use PUR FLOOR® in areas subject to hydrostatic head or in areas subject to secondary sources of moisture. Do not use PUR FLOOR® over concrete slabs treated with curing compounds or sealers as well as over gypsum based patches/underlayments. Below grade installations create environments which are more difficult to control moisture and room humidity levels. For below grade applications, structurally sound Engineered hardwood should be used. Woods chemically treated with products such as ammonia, wood stain, preservative, etc and woods with high oil content must be tested for adhesion prior to the application.

### TROWEL SELECTION

The proper notch trowel is very important in achieving satisfactory results with PUR FLOOR®. Use of an incorrect trowel will void all warranties. In cases where the levelness of the sub-floor is marginal, it is acceptable practice to use the next notch size trowel, but never go smaller in trowel size.

Wood Floor Type	Recommended Trowel	Approximate Coverage*
3 ply and 5 ply Engineered Plank	3/16 X 3/16 X 3/16 Square Notch	45 sq. ft/ U.S. gal
Fingerblock Parquet	1/8 X 1/8 X 1/8 Square Notch	80 sq. ft/ U.S. gal
Solid Wood Planks and Shorts or Plywood	1/4 X 1/4 X 1/4 Square Notch	35 sq. ft/ U.S. gal
Greater than 1/2 Engineered Plank or 3/4 Parquet	1/4 X 1/8 X 1/4 Square Notch	40 sq. ft/ U.S. gal

\* NOTE: Quantities shown above are approximate only. Actual coverage may vary according to substrate conditions and types of trowel used.

### APPLICATION CONDITIONS

- **SUBSTRATE TEMPERATURE:** During installation and until PUR FLOOR® has fully cured, the temperatures of the subfloor and the floor should be higher than 60°F (15°C). When floor heating is used, the floor temperature should be kept below 70°F (20°C) during installation and for 48 hours after installation;
- **ROOM TEMPERATURE** should be between 60°F (15°C) and 90°F (35°C), unless otherwise specified by the wood flooring manufacturer;
- **SUBSTRATE MOISTURE LEVEL:** See Subfloor Preparation above for details;
- **RELATIVE AIR HUMIDITY** should be between 40% and 70%.



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**INSTALLATION**

1. Read and understand all the instructions below prior to installation;
2. Follow all requirements provided by the wood flooring manufacturer, including those related to wood flooring acclimation, room temperature and humidity levels, environmental controls, expansion space and layout;
3. Follow the instructions for Subfloor Preparation above;
4. Follow the instructions for Trowel Selection above and select the appropriate notched trowel for the type of wood you are installing. Make sure the adhesive covers at least 90% of the application area;
5. Ensure the Application Conditions listed above are met;
6. Regardless of the current moisture level of the subfloor, it is recommended that a moisture vapor barrier coating be applied before installing the wood flooring with PUR FLOOR®. If using a moisture vapor barrier coating, follow the instructions on the moisture vapor barrier label and in the literature.
7. While wearing disposable gloves and safety glasses, apply PUR FLOOR® to the subfloor with a trowel and immediately begin laying the wood floor onto the wet adhesive. Avoid spreading over an area that cannot be covered within 30 minutes. NOTE: Do not set flooring into adhesive that has a dry skin. The open time of the adhesive will vary according to the temperature and humidity level. The higher the temperature and humidity, the shorter the open time.
8. IMPORTANT: see Clean Up instructions below.
9. Good transfer of the adhesive to the wood is essential for a successful installation. Periodically check to insure good transfer is achieved;
10. To prevent accidental movement and gapping of the flooring unit before the adhesive has cured, use strips of blue painter tape to interlock the rows together;
11. Higher humidity and temperature will accelerate the cure of PUR FLOOR®. Light foot traffic is allowed after 8-12 h and heavy foot traffic, after approximately 24 h of installation.

CLEAN UP: Remove PUR FLOOR® spills from the wood floor surface as well as tools and equipment as soon as possible before the adhesive dries because PUR FLOOR® is very difficult to remove after it has dried. Carefully use a soft cloth and DURA PRO™ adhesive cleaner or mineral spirits to remove PUR FLOOR® while it is still wet to not damage the floor. Please contact a DURA PRO™ representative to learn more about DURA PRO™ adhesive cleaner.

**STORAGE AND SHELF LIFE**

Store in a clean, dry area between 60-80°F (16-26°C). Shelf life is one year from date of manufacture. To reseal partially used containers, cover the opened container with a piece or two of plastic, close the pail lid tightly, and carefully turn the pail upside down. To re-open the pail, carefully turn the pail right-side up, remove the pail lid, cut and discard the piece of plastic and any cured adhesive.



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### HEALTH & SAFETY

Contains isocyanates. Inhalation may be harmful. Prolonged or repeated skin exposure may cause skin irritation. Do not swallow and avoid eye contact. If PUR FLOOR® comes in contact with skin, wash with soap and flowing water. Seek medical advice if irritation persists. If PUR FLOOR® comes in contact with eyes, flush with water for 15 minutes and seek medical advice. If adverse respiratory effects occur, move to a fresh air area and seek medical advice. If swallowed, do not induce vomiting and seek medical advice. For additional information, refer to Material Safety Data Sheet. **KEEP OUT OF THE REACH OF CHILDREN.**

### PACKAGING

18.9L pails; 36 pails/skid

### LIMITED WARRANTY

All statements, technical information, and recommendations set forth herein, are based on tests which Dural, a Division of MULTIBOND Inc. believes to be reliable. However, Dural, a Division of MULTIBOND Inc. does not guarantee their accuracy or completeness. The buyer should conduct his/her own test of this product before use to determine proper preparation technique and suitability for proposed application. Any sale of this product shall be on terms and conditions set forth on Dural, a Division of MULTIBOND Inc.'s quotation. DURAL, a Division of MULTIBOND Inc. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH THIS WARRANTY SHALL BE FOR THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL DURAL, A DIVISION OF MULTIBOND INC. BE LIABLE FOR DIRECT, CONSEQUENTIAL, ECONOMIC OR OTHER DAMAGES.

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