



## **POLYDEFENDER™ PENETRATING SEAL**

POLYDEFENDER™ PENETRATING SEAL is a high solids oil modified wood floor seal formulated to penetrate and seal bare wood. The high-gloss, high-solids layer accentuates the appearance of the system. POLYDEFENDER™ PENETRATING SEAL may be used anywhere in the United States except OTC regions and Southern California. This product contains less than 550 grams per liter VOC (volatile organic compound).

### **CHARACTERISTICS:**

High-solids, premium oil-modified polyurethane base coat, High gloss, Seals bare wood, Excellent flow and leveling, May be used anywhere in the United States except OTC regions and Southern California.

**Recommended for basketball, racquetball, volleyball, multi-purpose, stages, aerobics, and dance floors.**

Leveling: Excellent

Solids: 45%

V.O.C.: <550 gm/L

Dry Time: 8-12 hour recoat

Cure Time: 50% after 24 hours; 90% after 72 hours; 100% after 2 weeks

Coverage Rate: 500 square feet per gallon

Application Tools: Heavy weight T-bar with lambswool or synthetic applicator

Packaging: 5 gallon pails

### **DIRECTIONS FOR USE:**

USE DIRECTLY FROM CONTAINER - DO NOT DILUTE

CLOSE OR SEAL OFF ALL WINDOWS AND DOORS. TURN OFF AIR HANDLERS DURING THE APPLICATION PROCESS AND LEAVE EXHAUST RUNNING (NO AIR SHOULD BE BLOWING ON THE FLOOR SURFACE DURING APPLICATION). AIR HANDLERS SHOULD BE TURNED BACK ON AFTER APPLYING SEAL.

POLYDEFENDER™ PENETRATING SEAL IS COMPATIBLE WITH MOST OIL-MODIFIED WOOD FLOOR FINISHES IF DRY AND PROPERLY PREPARED. BE SURE TO ALWAYS PREPARE A TEST AREA TO ENSURE COMPATIBILITY.

ABRADING USING DEFENDER™ BLUE PADS OR SCREENS: WHEN ABRADING IS REQUIRED BE SURE TO ROTATE DEFENDER™ BLUE PADS OR SCREENS AT A RATE OF 500 SQUARE FEET - 250 SQUARE FEET EACH SIDE.

DIRECTIONS FOR NEWLY SANDED WOOD FLOORS:

THE POLYDEFENDER™ PENETRATING SEAL SYSTEM IS A FOUR COAT SYSTEM. Apply 2 COATS OF POLYDEFENDER™ PENETRATING SEAL FOLLOWED BY 2 COATS OF POLYDEFENDER™ WOOD FLOOR FINISH. Sand and prepare floors according to MFMA accepted methods. Final sanding should be completed with 100 grit and then the entire floor should be screened using a heavy duty floor machine (175 rpm) equipped with 100-120 grit screens. Vacuum and tack floor with mineral spirits until dust free and clean. DO NOT TACK BARE WOOD WITH WATER. Apply two coats of POLYDEFENDER™ PENETRATING SEAL. Seal should be applied using a heavy weight t-bar with synthetic or lambswool pad. YOU MUST ABRABE BETWEEN SEAL COATS USING DEFENDER™ BLUE PADS OR 150 GRIT SCREENS. After the first seal coat has dried for 12-18 hours abrade, vacuum, tack floor, and apply second seal coat. Allow second seal coat to dry 18-24 hours and apply two final coats of finish using POLYDEFENDER™ WOOD FLOOR FINISH (see product directions). If finishing with POLYDEFENDER WOOD FLOOR FINISH abrade between coats.

SEALING: Be sure the floor surface is free from wax or oily residue. STIR WELL BEFORE USING. Pour a 4-6" wide line of finish along the starting wall with the grain of the wood. Use a clean pre-dampened with mineral spirits synthetic or lambswool applicator and pull the applicator forward with the grain of the wood holding the applicator at a "snowplow" angle moving the puddle towards the opposite wall. Replenish the puddle maintaining a wet edge. After each turn, pad out applicator and feather out all turns. To prevent lapping and dry marks use the recommended coverage rate (500 sq.ft./gallon). Allow seal to dry 8-12 hours. Before the second seal coat is applied be sure to abrade the entire floor using DEFENDER™ BLUE PADS at a rate of 500 square feet per pad. Vacuum and tack floor until dust free and apply the final coat of seal in the same manner as the first coat. High humidity and/or low temperatures will extend drying times. Allow the second seal coat to dry at least 8-12 hours before continuing with game lines or final coatings.

**GAME LINES:** If game lines are required paint them after the second seal coat. The second seal must be dry and abraded using DEFENDER™ BLUE PADS. Before painting be sure the floor is vacuumed and tacked dust free. Paint game lines using GAMESLINER™ COURT FLOOR PAINT. Allow paint to dry 24 hours. Dry times can be extended with high humidity and/or low temperatures. For best results abrade the entire surface and newly painted game lines with DEFENDER™ BLUE PADS. Vacuum and tack entire floor until dust free and apply final coats of POLYDEFENDER™ WOOD FLOOR FINISH. IF USING ANOTHER MANUFACTURER'S PAINT BE SURE TO TEST A SAMPLE AREA FOR COMPATIBILITY.

**NOTE:** POLYDEFENDER™ PENETRATING SEAL SHOULD BE USED TO SEAL BARE WOOD. IT SHOULD NOT BE APPLIED OVER LAQUERS, SHELLACS, OR PRODUCTS CONTAINING STEARATES.

OIL MODIFIED SEALERS WILL HAVE AN AMBERING COLOR TONE THAT ACCENTUATES AND DARKENS THE WOOD GRAIN.

**DAILY CLEANING:** After POLYDEFENDER™ WOOD FLOOR FINISH has cured for 14 days it's important to implement an effective cleaning routine. Dry mop the floor several times during the day to keep the dirt, dust, and grit off the court floor. At the end of each day the floor should be wet mopped using a solution of COURTCLEANZE™ COURT FLOOR CLEANER CONCENTRATE mixed 1 part per 10 parts of water. Wet mopping is very important because it removes the fluids, sweat, and penetrating soils that dry dusting leaves behind. COURTCLEANZE™ COURT FLOOR CLEANER CONCENTRATE can also be used in an autoscrubber equipped with white pads.

**CURING:** The curing process takes approximately 14 days when using POLYDEFENDER™ WOOD FLOOR FINISH. Do not replace rugs or mats until the floor is fully cured. The floor may be walked on after 24 hours, but the floor is susceptible to scuffing or marring prior to completion of curing time. Do not clean with water or detergent during the first week.

**SHELF LIFE:** Minimum of one year in an unopened container.

**CLEAN UP:** All tools should be cleaned with mineral spirits.

**DANGER!** Contains Petroleum Distillates. DO NOT TAKE INTERNALLY! Harmful if inhaled. Do not breathe vapors or mist. Use with adequate ventilation. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved). May cause dizziness, headache, or nausea. May cause eye, skin, nose, or throat irritation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep away from heat, sparks, and flames. Do not store above 100 degrees F. Keep out of reach of children!

OSHA CLASS II (combustible liquid) flash point = 110 degrees F

**DANGER:** Rags, steel wool, or waste soaked with POLYDEFENDER™ FAST DRY SEALER may spontaneously catch fire if improperly discarded. Immediately after use place rags, steel wool or waste into sealed water filled metal container.

**NOTE:** There are no express or implied warranties, including warranties of merchantability or fitness for a particular purpose. Buyer's remedies are limited to replacement or refund of purchase price. Manufacturer assumes no liability for injuries, incidental or consequential damages. User shall determine suitability or product for intended use.

BEFORE USING READ ALL DIRECTIONS AND MATERIAL SAFETY DATA SHEETS FOR THIS PRODUCT.

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