

INSTALLING A **MAXWELL** 1/2" SOLID OAK FLOOR

MAXWELL HARDWOOD 1/2" SOLID OAK FLOORING CAN BE NAILED DOWN OR GLUED DOWN TO ANY ACCEPTABLE SUBFLOOR.

PRE-INSTALLATION PROCEDURES

KEY POINTS TO INSTALLATION GUIDES:

- ⇒ Leave 3/4" or larger expansion space around perimeter of room.
- ⇒ Excessive moisture and humidity can affect flooring.
- ⇒ Install on or above grade only.
- ⇒ Relative humidity should range between 35-55%.
- ⇒ The installation site should have a consistent room temperature of 60 -72 Degrees Fahrenheit for a minimum of 72 hours prior to installation.
- ⇒ **After installation, it is recommended that flooring be allowed to acclimatize at least one week prior to sanding and finishing.**

TOOLS NEEDED

- ⇒ Tape Measure
- ⇒ Chalk and Chalk Line
- ⇒ Broom
- ⇒ Hammer and Nailset
- ⇒ Miter Saw or Table Saw
- ⇒ Hand Saw
- ⇒ Trowels
- ⇒ Masonry Nails (To secure starter row-- to push against)
- ⇒ Odorless mineral spirits/towel

TOOLS NEEDED FOR NAIL DOWN INSTALLATION

- ⇒ Pneumatic Model 200 T&G Powernailer with M-1 Adapter Plate, 3 Shims, 80 psi air pressure and 1 1/4" x .035" E-Powercleats nails or Stanley-Bostitch S32SX-BHF-2 Stapler or acceptable nail gun (Adjust gun for proper product thickness).
- ⇒ 1" glue coated staples recommended by stapler fastener manufacturer.
- ⇒ Moisture Barrier

TOOLS NEEDED FOR GLUE DOWN INSTALLATION

- ⇒ Bostik's Best Wood Flooring Urethane Adhesive. Spread rate is 40 sq. ft per gallon.
- ⇒ 1/4" x 1/8" square notch trowel (Bostik #82 or comparable)
- ⇒ 100-150 lb. Roller
- ⇒ 5 lb. rubber flooring mallet

JOB SITE PREPARATION

PREPARE THE JOB SITE

- ⇒ All concrete, plaster and painting work should be completed.
- ⇒ Heat or air conditioning must be operational. Maintain 60-72 degrees F for 72 hours before installation and until occupied.
- ⇒ Exterior grading should be completed (slope away from structure only).
- ⇒ All down spouts and rain gutters need to be installed.
- ⇒ Soil in the foundation crawl space must be covered with 6-mil polyethylene. Foundation ventilation must be provided and operational.

PREPARE THE PRODUCT

- ⇒ Deliver product to properly dry and prepared job site at least 72 hours before installation. Heat or air conditioning should be active.
- ⇒ Wood should have moisture content within 5% of the existing structure.

SUBFLOOR TYPES

- ⇒ APA approved 5/8" T&G, exterior grade or 3/4" or greater square edge plywood.
- ⇒ 3/4" (23/32") OSB, PS-2-92, APA rated STURD-I-FLOOR
- ⇒ Existing wood floors (Install at right angle only)
- ⇒ Over vinyl - one layer not to exceed 1/8" thickness with suitable sub-floor underneath.
- ⇒ Concrete slabs - high compressive strength (90 lb. Density)
- ⇒ 3/4" chip or wafer board (glue down only)
- ⇒ Radiant heat (Please see NOFMA special instructions)
- ⇒ Poured gypsum underlayments (3000 psi min) (gypcrete/hacker)

SUBFLOORS MUST BE

- ⇒ Clean- Scraped, broom clean and smooth. Free of wax, laitence, paint, oil or debris (100% free from sealers and adhesive residue.)
- ⇒ Level/Flat- Within 3/16" in 10' and/or 1/8" in 6'. Sand high areas or joints, fill low areas (no more than 1/8") with Portland cement leveling compound. (Do not use gypsum patches.)
- ⇒ Structurally Sound - Nail or screw any loose areas that squeak. Replace any water damaged sub-flooring or underlayments.
- ⇒ Dry- Check moisture of subfloor. Moisture content of wood subfloor must not exceed 14% on a wood moisture meter or read more than a 5% difference than moisture level of product being installed.

WOOD TYPE FLOORS

- ⇒ Make sure wood subfloor is dry and well nailed or screwed down every 6" along each joist to avoid squeaking or popping before the floor is installed. Level any raised edges by rough sanding. When installing over old wood floors, install the new flooring at right angle to subfloor.

PIER AND BEAM

- ⇒ For pier and beam foundations, vent openings totaling 1.5% per 1000 sq. ft of the area of the first floor should be provided in the foundation walls, to assure adequate cross-circulation of air. The vents should be left open at all times year round. For homes without basements, install ground cover (6 mil polyethylene) in crawlspace. Overlap plastic 6" and tape seams.

CONCRETE SLABS

- ⇒ You can glue flooring directly to the concrete. Do not use a concrete sealer. All concrete sub-floors should be tested for moisture content. All new concrete slabs must be fully cured and dry for 90 days or longer if possible.

Moisture Barrier System- If moisture is present, please contact a professional hardwood flooring installer to install your moisture barrier system.

A DRY SLAB CAN BE WET AT OTHER TIMES OF THE YEAR. ALL CONCRETE SLABS SHOULD HAVE A MINIMUM OF 6 MIL POLYFILM MOISTURE BARRIER BETWEEN THE GROUND AND THE CONCRETE.

GLUE DOWN INSTALLATION PROCEDURES FOR A MAXWELL 1/2" SOLID FLOOR

STARTING LINE

- ⇒ We recommend you install your flooring parallel to the longest outside (exterior) wall in the room.
- ⇒ Measure 3" from the starting wall and snap a chalk line.
- ⇒ Leave 3/4" expansion space around the perimeter and all standing objects. Remember this is a solid wood floor; it will expand and contract with environmental changes.
- ⇒ Seasonal gaps and minor cupping may occur. These are not defects and will change when the environment is corrected with humidification/dehumidification.
- ⇒ Do not work on the newly installed flooring. In some circumstances it may be necessary to work on the newly installed flooring, in those instances make sure to use a kneeler board to support your weight evenly.

SPEADING BOSTIK'S BEST ADHESIVE

- ⇒ Use a wet lay method with a 1/4" wide by 1/8" deep square notch trowel. 95% adhesive transfer is required. A 1/4"x 1/4"x 1/4" may be used to improve coverage.
- ⇒ Hold trowel at a 45-degree angle. Spread in even, consistent manner over workable area. Spread rate is 40 sq. ft. per gallon.
- ⇒ Set up time is important with this adhesive- pay attention to it. Work times will vary in different climates. To test, touch the adhesive with your fingertips, if no transfer occurs, the adhesive is too dry and must be removed.
- ⇒ Approximately one hour after starting the installation, roll the flooring and continue rolling periodically during the installation to insure proper transfer of the adhesive. Use a 100-150 lb. roller.
- ⇒ Remove any adhesive from the face of the flooring during installation.

INSTALLATION OF THE FLOORING

- ⇒ **Installation of 1/2" flooring is installed opposite or backwards from 3/4" flooring.** Remove the tongue from the first row using a table saw. Place the first row in the adhesive by aligning the groove side along the chalk line (**side with removed tongue faces wall**). You will be able to see the dark line through the adhesive. Ensure starter row is firmly in place, as all additional rows will be pushed back to this original row. Use wedges against starting wall or face nail the first row.
- ⇒ If face nailing the first row, counter sink heads. Use filler that blends with floor color.
- ⇒ Do not slide the planks through the adhesive when placing them in position. Always try to align each piece being installed as close as possible to the adjoining piece. This will help avoid excess glue from being pushed to the surface of the flooring or from obstructing the engagement of the tongue and groove.
- ⇒ For the best aesthetic results, floor should be installed from several bundles at a time or racked to ensure a good color and shade mix and always stagger the ends of adjacent planks a least 6" apart.
- ⇒ Refer to the specific instructions on Bostik's Best Wood Flooring Urethane Adhesive label for work/open times.
- ⇒ Periodically check the adhesive transfer by lifting a plank to see that the glue is evenly covering the entire plank.
- ⇒ During installation, roll the floor approximately every hour using a 100-150 lb. roller.
- ⇒ Complete the installation following the above guidelines.

For Best Results, we suggest using a National Wood Flooring Association Certified Professional. A list of active NWFPA Certified Professionals in your area can be found online at woodfloors.org/certified-professional-search.aspx

IMPORTANT NOTICE TO INSTALLERS

The most modern advances in lumber drying and manufacturing have been used to produce this product. However because of the long lengths involved (many boards average 5' to 6' long) some minor warping will occur after manufacturing and before installation. Because of this, it is recommended that the use of wedges and jacks be used for glue down installation only to pull boards up to a snug fit. This will improve the overall appearance and aesthetics of the installation.
Clean Up-----Cured adhesive cannot be removed with mineral spirits. Clean as you work.