



HARDWOOD FLOORING

ELITE

HARDWOOD COLLECTION

Engineered Installation System

Engineered Construction

- Pattern Plus 5000 only

Recommended Adhesives: Hartco 57,
Armstrong ProConnect™

Recommended Adhesive Remover: 57 Adhesive Remover

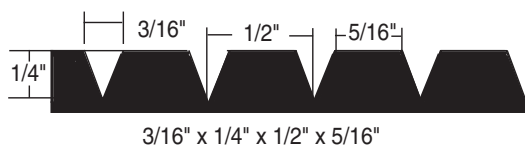
Recommended Cleaner: Hardwood Spray Cleaner

NOT A FLOATING FLOOR

Installation recommendations for Armstrong Pattern Plus 5000

I. GENERAL INFORMATION

- A. Use either ProConnect™ or Hartco 57 adhesive when installing these floors. It can be installed below grade, on grade, or above grade.
- B. Armstrong Wood Flooring can be installed on concrete, existing wood floors, plywood, particleboard, resilient tile, existing sheet goods, terrazzo, or ceramic tile as long as they are structurally sound, clean, level, dry and will remain dry.
- C. ARMSTRONG WOOD FLOORING IS NOT RECOMMENDED FOR BATHROOM INSTALLATIONS. THE MOISTURE FREQUENTLY ASSOCIATED WITH SUCH LOCATIONS MAY PREVENT SATISFACTORY RESULTS.**
- D. To prevent damage, wood floors should be installed after all other construction is completed.
- E. Satisfactory performance of wood floors is greatly influenced by its environmental conditions. A temperature of 18°C and a relative humidity between 35-50% are ideal. Temperatures of the subfloor, adhesive and flooring should be over 16°C during installation.
- F. STORAGE: store Armstrong Wood Flooring in a dry place. If stored on-grade, at least a 10cm space must be provided under and around all cartons. Do not store directly upon on-grade concrete or next to outside walls.
- G. EQUIPMENT NEEDED: Saw, chalk line, jamb saw, tape measure, and a 3/16" x 1/4" x 1/2" x 5/16" notched trowel to get a spread rate of about 1.5m²/litre. **IT IS EXTREMELY IMPORTANT TO USE THE RECOMMENDED TROWEL TO OBTAIN SATISFACTORY RESULTS.**



- H. CAUTION: Adding another finishing or maintenance material over the existing material that was applied during manufacturing may produce unsatisfactory results. Results obtained by applying any type of materials (other than those recommended by Armstrong for maintenance purposes) are beyond our control.
- I. WOOD SWELLS AND EXPANDS WITH ANY INCREASE IN MOISTURE CONTENT. ALWAYS LEAVE AT LEAST 6mm EXPANSION SPACE BETWEEN THE FLOORING AND THE WALLS AND NEXT TO ALL VERTICAL OBJECTS TO ALLOW FOR EXPANSION OF THE FLOORING.
- J. Do not cover a new installation with protective paper or material for at least two weeks or until the adhesive has fully cured.
- K. Pattern Plus 5000 is sealed in a polyethylene bag to help maintain the proper moisture content. DO NOT REMOVE FROM THE BAG UNTIL READY TO INSTALL. Any unused pieces should be returned to the bag and resealed until ready for use.

II. SUBFLOORS - GENERAL

- A. When installing over existing floor coverings, make sure that floor covering is completely secured to the subfloor. No perimeter laid sheet goods are acceptable. Urethane sheet goods less than one year old need the surface abraded so the adhesive will adhere to it.
- B. Wood subfloors can be plywood, particleboard that are nailed down, has tongues and grooves, and is less than 6mm wide can also be used. Any existing squeaks in the subfloor must be eliminated before spreading adhesive. Wood subfloors should not be over 13% moisture content, 8% moisture content is best.
- C. Concrete slabs containing antifreeze chemicals, admixtures or curing compounds that are hygroscopic are not acceptable.
- D. Armstrong adhesives should not be spread over subfloors that have had a sealer applied. Any existing sealer should be ground off. Also remove all previous or existing adhesives.
- E. Pattern Plus 5000 can be installed over light-weight concrete (3,000-PSI or less) or radiant-heated subfloors. **Pattern Plus Maple** is not recommended over radiant heated subfloors.

III. CONCRETE SUBFLOORS

Before a floor covering is laid on a concrete subfloor or screed underlay, the dryness shall be determined using either the hygrometer or electrical resistance test as described in Appendix A (Australian Standards AS1884-1985. Dryness shall be considered satisfactory when relative humidity does not exceed 70 percent, or the moisture content does not exceed 5.5 percent.

NOTE: Guidance on problems associated with dampness in concrete floors can be found in the CSIRO Publication 'Floor Coverings on Concrete Slabs on Ground', and the Building Research Establishment Digest 163 (March 1974) Drying Out Buildings.

IV. INSTALLATION

Step 1 - Preparation

- A. Check subfloor to make sure no excessive moisture is present. Do not install wood flooring over wet surfaces.
- B. SUBFLOORS SHOULD BE LEVEL TO WITHIN 5mm IN 3m OR 3mm IN 2m. FILL LOW SPOTS WITH PATCHING OR LEVELLING COMPOUND. HIGH SPOTS SHOULD BE GROUND LEVEL. LATEX LIQUID AND POWDER LEVELLING COMPOUND CAN BE USED UP TO 3mm IN THICKNESS. LEVELLING OR PATCHING COMPOUNDS USED IN AREAS THICKER THAN 3mm NEED TO HAVE A COMPRESSIVE STRENGTH OF AT LEAST 4,000 PSI PATCHING COMPOUNDS MUST THOROUGHLY DRY BEFORE INSTALLING ON THEM.
- C. Existing floor covering should be surface treated to remove maintenance materials, finishes, or glaze by scouring, sanding, or grinding (see warning on back page).
- D. Door casings and jambs or existing mouldings should be undercut 12mm above the subfloor so the flooring can be installed beneath them for expansion purposes.
- E. Thoroughly sweep and/or vacuum the entire area.

Step 2 - Layout

Layout varies with the type of pattern and each installation, but it should be designed to save labour and materials as well as to enhance the appearance of the installation. All Pattern Plus 5000 units are 9.5mm thick and 114mm wide, with random lengths. Room for expansion space of at least 6mm must be considered when laying out working lines. Only one working line is needed for some patterns. Some patterns require two working lines 90° to each other.

Certain patterns look best when the borders are balanced (symmetrical with the room). Pattern Plus 5000 flooring can be installed parallel to the room or on a diagonal, whichever is preferred. Once the working lines and starting point are established, they can be checked for accuracy by installing some Pattern Plus units before spreading adhesive.

Installation may begin next to a wall or in the centre of the room. An outside wall (which is normally the straightest) is a better reference for establishing a working line as opposed to any interior wall. Large installations can be broken into quarter or half sections to further ensure proper alignment of the flooring units throughout the entire installation.

1. When only one working line is needed, establish the line by measuring an equal distance from the starting wall at both ends as in Figure #1. This distance should be multiple of 114mm plus 6mm for an expansion space.

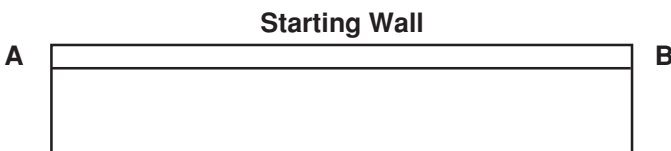


Figure #1

2. Establish the working line for a diagonal installation by measuring 1200mm to point A & B from the starting corner opposite an exit. See Figure #2.

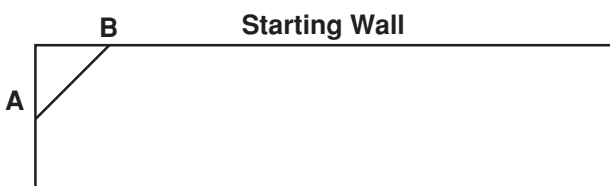


Figure #2

3. For some patterns such as herringbone, the diagonal working line is formed by striking a line through the centre of the room. See Figure #3.

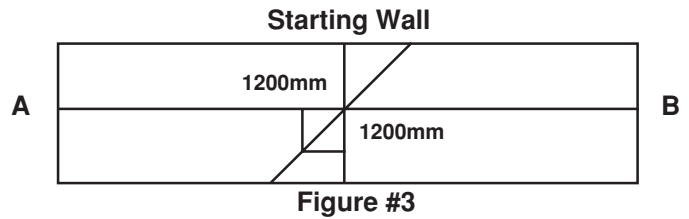


Figure #3

Step 3 - Spreading Adhesive

- A. Use a 3/16" x 1/4" x 1/2" x 5/16" notched trowel.
- B. Hold the trowel at a 45° angle to the subfloor to obtain the proper ridges and a spread rate averaging 1.5m²/litre (ProConnect™) or 1.5m²/litre (Hartco 57), depending upon the subfloor surface.
- C. When using ProConnect™ adhesive, spread only enough adhesive as can be covered in 30 minutes. Provide good ventilation until adhesive is cured.
- D. Keep the adhesive container closed when not using. Evaporation could cause the adhesive to dry prematurely and become difficult to spread.
- E. Spread the adhesive along the working line, making sure not to cover the line.
- F. ProConnect™ and fresh Adhesive 57 can be removed with a suitable adhesive remover. Cured Adhesive 57 can be removed with Hartco Adhesive Remover.

Step 4 - Laying Hartco Pattern Plus 5000

- A. Trowel the adhesive and immediately install the flooring before the adhesive "skins" over and prevents adhesive transfer. This may be less than 60 minutes. Occasionally lift a flooring unit to ensure proper adhesive transfer.
- B. INSTALL FROM ON THE SUBFLOOR AS LAYING PROCEEDS, NOT FROM ON THE PLANK SURFACE. DO NOT STAND ON THE FLOORING. Use a knee board if it is necessary to work on top of the flooring such as in closets.
- C. Proper placement of the first flooring unit is very important. The groove side of the flooring unit should be directly lined up on the working line or lines. A minimum space between adjacent end joints should be at least 150mm to prevent clustering.
- D. Continue laying the floor until all adhesive spread is covered. Make sure all units along the working lines are properly aligned or else the entire installation will be out of alignment. If they scoot out of alignment, realign them before going any further.
- E. Complete the installation, area by area, just like the first. All cutting and trimming against vertical objects should be done for each area as you continue.
- F. MAKE SURE THERE IS AT LEAST 6mm EXPANSION SPACE NEXT TO ALL VERTICAL OBJECTS.

- G. The installer can walk on the floor as soon as the adhesive becomes dry enough to prevent the units from scooting out of position. Furniture, equipment, or traffic should not be allowed onto the installation until the adhesive becomes firmly set, which is normally 24 hours.
- H. IF THE FLOORING UNITS LIFT OFF THE SUBFLOOR AT THE PERIMETER OR IN DOORWAYS, ANCHOR THEM IN PLACE UNTIL ADHESIVE DEVELOPS ENOUGH STRENGTH TO HOLD THEM DOWN.
- I. Install the units slightly snug to loose without leaving obvious cracks. Do not use a rubber mallet or the units may be installed too tight and it may also destroy the adhesive ridges.

V. PREFINISHED MOULDINGS

- A. **Reducer Strip** - Used around fireplaces, doorways, as a room divider, or as a transition between Pattern Plus 5000 and adjacent floor coverings that are less thick. Fasten down with adhesive or double-faced tape.
- B. **Threshold** - Used against sliding door tracks, fireplaces, carpet, ceramic tile, or existing thresholds to allow for expansion space and to provide a smooth transition in height difference. Fasten down with adhesive and/or nails (must be pre-drilled to prevent splitting).
- C. **Stair Nosing** - Used to trim stair landings, elevated floors perimeters and stair steps. Fastened down firmly with adhesive and nails (must be pre-drilled to prevent splitting).
- D. **Quarter Round** - Used to cover expansion space next to baseboards, case goods, and stair steps. Pre-drilled and nailed to the vertical surface, not to the floor.
- E. **T-Moulding** - Used as a transition piece from one hard surface flooring to another or to gain expansion spaces.

As with all hardwood flooring, it is important to properly clean and maintain this flooring in order to prevent substances, including but not limited to water, food, and grease, from making the flooring slippery.

The above suggested recommendations for the installation of Armstrong Pattern Plus 5000 Hardwood Floors are predicated on tests believed to be reliable; however, since each application and use is beyond our control, we do not guarantee the results to be obtained.

CARE AND MAINTENANCE TIPS

Please contact Armstrong for full product care and maintenance guidelines.

NOTE: REMOVING VINYL SUBFLOOR

Vinyl flooring manufactured in Australia after January 1, 1984, **DOES NOT** contain asbestos. However, regulations, codes and directives as to the best method of handling asbestos do exist and it is the obligation of the installer to ensure that practices used are safe, without risk to health, and meet all legal requirements.

ALL ARMSTRONG WORLD INDUSTRIES (AUSTRALIA) PTY LTD FLOORCOVERINGS, ADHESIVES AND ACCESSORIES ARE MANUFACTURED ASBESTOS FREE

WARNING !

Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverise existing resilient flooring, backing, lining felt or asphaltic 'cut-back' adhesives.

These products may contain either **asbestos fibres or crystalline silica**.

Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard.

Smoking by individuals exposed to asbestos fibres greatly increases the risk of serious bodily harm.

Unless positively certain that the product to be removed is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content.

Note: Vinyl flooring manufactured in Australia after January 1, 1984 **does not** contain asbestos.

Disclaimer - Asbestos issues

The warnings and guidance contained in these instructions in relation to the potential for asbestos in floorcovering materials are given in good faith. However, regulations, codes and directives as to the best method of handling asbestos are under continual revision. It is the obligation of the installer to ensure that practices used are safe, without risk to health, and meet all legal requirements.

Armstrong World Industries (Australia) Pty Ltd accepts no liability for any loss, costs, expense or injury, however incurred, arising from the presence of any asbestos in any floorcovering materials or asphaltic 'cut-back' adhesives and/or any reliance placed upon the procedures and recommended practices contained in these instructions.

For further Armstrong information

Freecall 1800 800 518

www.armstrong-aust.com.au