

DURAfusion® - Installation Instructions

- Carefully check the planks for any defects, ensure that you have the correct material and that all the cartons are from the same production lot, DO NOT install any planks from a different production lot or with defects.
- Cartons must be stored no more than 3 cartons high horizontally on a sturdy base at room temperature, between 18°C - 28°C (65°F - 82°F) and relative humidity RH of 45-65% for 48 hours before installation and must be maintained during the installation.
- Protect the flooring from damage, always protect the surface of the installed flooring during construction by laying a construction paper that will allow the floor to breath, do not use plastic or polyethylene sheeting to cover the floor.
- Installation should only be started after the drywall and other work are thoroughly dried and all but the final woodwork and trim have been completed.
- **DURAfusion®** has industry leading acoustic properties, it does not require an underlayment.
- **DURAfusion®** is a floating floor system incorporating the patented Unilin Drop n' Lock installation system. **As a floating floor, attention must be given to load limits and high point loads such as heavy furniture, cabinetry and fixed millwork so as to not restrict the floating floor system.**
- Exposure to direct sunlight can result in the product fading, creates excessive heat directly on the finished flooring and surrounding structure, which may result in movement. **During peak sunlight exposure, the use of drapes or other window treatments are required.**
- **DURAfusion®** must be installed with a 5.5mm (1/4") gap around the perimeter of the room and at all vertical surfaces. A transition allowing a 5.5mm (1/4") gap must be in place when installations are greater than 15m (50') in any direction.
- Doorjambs, casings, moldings must be undercut, to allow the flooring to float, while maintaining the 5.5mm (1/4") gap at all vertical surfaces.
- **DURAfusion®** can be installed in fully enclosed spaces that do not have permanent heating and cooling systems in operation. These spaces include seasonal vacation homes, cabins, 3 season rooms, etc. In these applications, the room temperature must be between 18°C - 28°C (65°F - 82°F) and relative humidity RH of 45-65% for 48 hours before installation and must be maintained during the installation.

- In these applications, **DURAFusion** must be installed with a 5.5mm (1/4") gap around the perimeter of the room and at all vertical surfaces. A transition allowing a 5.5mm (1/4") gap must be placed at all doorways and when installations are greater than 9m (30') in any direction.
- For all commercial applications, **DURAFusion** must be installed with a 5.5mm (1/4") gap around the perimeter of the room and at all vertical surfaces. A transition allowing a 5.5mm (1/4") gap must be placed at all doorways and when installations are greater than 9m (30') in any direction. **DURAFusion** is not to be used in commercial applications with rolling loads, use a **DURA** glue down product for commercial applications with rolling loads, see your distributor for more product information.
- **DURAFusion** may be installed over hydronic radiant heated floors to a maximum allowable temperature of 28°C (82°F).
- Stagger the joints so a random pattern is generated, the flooring must be installed from several boxes to ensure a blend of colour and design, all end joints must be staggered at least 8" (200mm) for strength and stability.
- It is the responsibility of the installer/owner to inspect all materials carefully before installation and to determine if the substrate and jobsite conditions are environmentally and structurally acceptable for floating floor installation. The manufacturer is not responsible for a floor failure resulting from any improper installation or connected with any substrate deficiencies, jobsite damage or any visible defects after the flooring has been installed.

SUBSTRATES

- Substrate surfaces shall be sound, true and level to a tolerance of 6 mm in 3 m (1/4" in 10 ft.) and free of deflection of no more than 1/360 of span under live or dead load.
- Concrete substrates shall be cured for a minimum of 28 days, must be tested for moisture emission in accordance to ASTM F2170 with relative humidity (RH) levels not to exceed 85% and ASTM F1869 with levels not to exceed (5lbs / 1000sf. / 24 hrs.). A functional moisture vapor barrier must be in place under newly poured concrete slabs that are on or below grade, and must have declining RH values.
- Any repair to the concrete substrate shall be made using the proper surface preparation product, fast setting cement-based polymer modified patching compound and acrylic latex additive are recommended. Neutralize any traces of strong acid or alkali prior to application of the surface preparation product.
- Wood joist/truss systems must be a maximum of 16" on center when installing a single layer substrate, for spacing in excess of 16" a double layer substrate is required to meet the required deflection of no more than 1/360 of span under live or dead load.
- All suspended wood subfloors must have at least 18" of well-ventilated air space clearance above the ground. The ground under the crawlspace shall be covered with a 10 mil. or thicker polyethylene vapour barrier to reduce moisture transmission.

- Plywood and Oriented Strand Board (OSB) are suitable substrates, a minimum thickness of ¾" or 22/32" for OSB, tongue and groove, exterior grade conforming to APA classification and select (SEL TF) COFI classified is required. The installation of wood substrates shall comply with ASTM F499-84 standard, must not exceed more than 12% moisture content and must be acclimated for at least 72 hours to the job site condition prior to installation.
- Wood substrates shall be filled and patched to correct seams, cracks, indentations and other subfloor irregularities using the proper surface preparation products. Fast setting cement-based polymer modified patching compound and acrylic latex additive are recommended.
- Wood substrates not meeting the above requirements must be covered with a minimum ¼" thick underlayment grade subfloor, the recommended underlayments are; APA Underlayment Grade Plywood, ACCU-Ply, SurePly, TECPLY, ULAY, C.S.A (CanPly), Proboard and must not exceed more than 12% moisture content and must be acclimated for at least 72 hours to the job site conditions prior to the installation.
- **DURAFusion** can be installed over any hard and flat surface such as existing cement, terrazzo, ceramic tile and non-cushioned resilient flooring. The existing flooring must be sound, solid, well adhered, stripped or sanded clean, free of dust, wax, grease, soap residue or any other substance. Any cuts, gouges, dents, grout joints or irregularities in the existing floor must be properly leveled with a fast setting cement-based polymer modified patching compound and acrylic latex additive. The sub floor or underlayment that is under the existing floor must meet the requirements already noted.

INSTALLATION

- Check that the tongue and groove edges are free of damage and debris, DO NOT install planks that are damaged or with debris on the tongue or in the groove. This is an important step to ensure that the panels will fit securely, lay flat and to avoid damaging the planks during and after the installation.
- The flooring must be installed from several boxes to ensure a blend of colour and design, all end joints must be staggered at least 8" (200mm) for strength and stability.
- **DURAFusion** can be cut with a fine tooth multipurpose saw blade, a guillotine cutter or it can be scored with a utility knife and snapped, for curved and L-cuts use a fine tooth hand saw or jigsaw.
- Below and on grade concrete installations require a 6mil polyethylene vapour barrier with a 150mm (6") overlap on all joints, all seams must be sealed with Tuck tape or equivalent.

- The flooring should be installed parallel with the longest wall, since walls are often not straight and rooms are not square, use care in putting down the first row of flooring, use a chalk-line as a guide to ensure the first row is straight and scribe the first row to the wall if necessary. Use blocks or wedges to align the first row to the chalk line. It is very important that the first row is straight, do not fasten the first row to the floor (Fig.1).
- Measure the row before laying the first panel and cut the first panel according to the length required for the last panel, ensure that the last panel is a minimum of 8" (20cm) (Fig.2). Install the first row by laying the first panel in the left-hand corner of the room with the tongue facing the wall allowing a 5.5mm (1/4") around the perimeter of the room and at all vertical surfaces, ensure to include the tongue in the measurement when allowing for the gap, lock the ends of the panels together until the first row is finished (Fig.3&4).

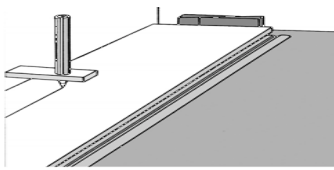


Fig.1

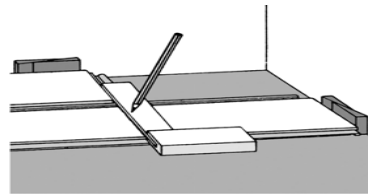


Fig.2

- Continue to lay each remaining panel by folding the length of the panel first. **DO NOT use a hammer or tapping block to install the planks.** (Fig.3)
- Fold and place the end joint in the locking position, ensure that the joints are flat and free of damage or debris. (Fig.4).

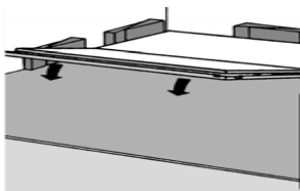


Fig.3

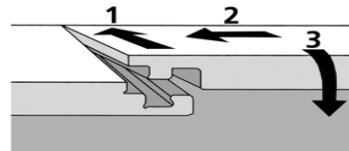


Fig.4

- Stagger joints so a random pattern is generated, the flooring must be installed from several boxes to ensure a blend of colour and design, all end joints must be staggered at least 8" (200mm) for strength and stability.
- When you have reached the final row, you will need to measure the width of the final planks. You may need to rip the planks to match the width of the remaining space, a minimum of 4" is recommended.
- After the floor has been cleaned, inspect the floor for damage, scratches, gaps, or planks that may have moved during installation, replace or repair any planks that have may been damaged.

CARE & MAINTENANCE

DURAFusion. UV cured polyurethane finish does not require coatings and will protect your floor for many years, follow the precautions below.

- **Exposure to direct sunlight can result in the product fading and creates excessive heat directly on the finished flooring and surrounding structure, which may result in movement. During peak sunlight exposure, the use of drapes or other window treatments are required.**
- Use plywood or other protective material to cover the top of the flooring when moving heavy furniture or appliance into position.
- Use non-staining, flat surface teflon/felt protectors not less than 2" in diameter for legs of heavy appliances and furniture. Use proper floor protectors on all chairs, remove all small diameter buttons from legs of chairs and replace with teflon/felt protectors not less than 1" in diameter. Examine the protectors periodically, check for debris or wear and make sure the surface is smooth, do not drag items across your floor.
- Use only rolling type casters approved for use on hard surface flooring, such as neoprene or urethane castor wheels, these precautions may reduce scratches and indentations from appearing on your floor.
- Use walk off mats at all room entrances, do not use rubber or latex back mats, certain chemicals in the backing can stain vinyl, use non-staining vinyl mats or woven rugs that are colorfast.
- Do not expose floor to frequent standing water as this could damage a plywood or OSB subfloor, wipe up all spills quickly.
- For cleaning, thoroughly sweep, vacuum and damp mop with a neutral cleaner as per the manufacturer recommendations.
- For heavily soiled floors, damp mop with a neutral cleaner as per the manufacturer recommendations, a white scrub brush or a white nylon pad may be used to loosen dirt. For best results, continue to rinse the brush or pad throughout the cleaning process.