

MonoTech (Waterproof Wood) Installation Instructions

Before starting installation:

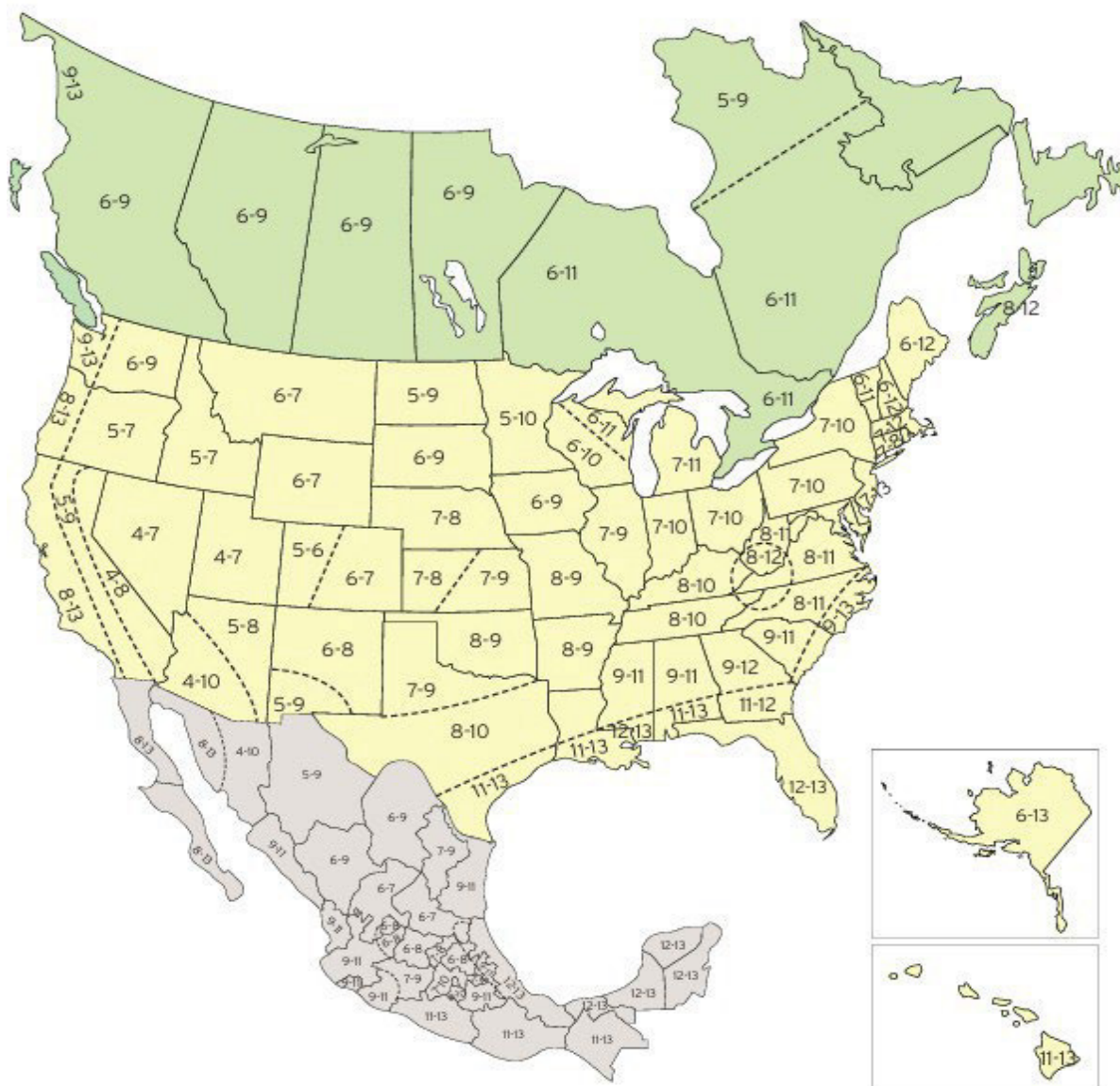
Congratulations! You have purchased one of the best wood floors in America, which must be installed according to the National Wood Flooring Association[™] guidelines. If installed properly, it will provide you with many years of beauty, comfort, and durability.

Please click on the link below for a quick and easy installation video. Please watch this video and follow all instructions for a successful installation of your monolithic flooring.

MonoTech Installation Video

- ◆ YOU HAVE PURCHASED A FLOATING FLOOR SYSTEM. Your floor is 100% natural wood fibers combined with organic catalyst. This installation should be treated just like any other real wood product, which includes:
 - **Adhering to the guidelines set by the climate zone expansion requirement chart on page 2.**
 - **48 hours acclimation time with your climate control system operating properly for at least 72 hours before acclimation time.**
- ◆ All pages of this document need to be read before beginning installation. Failures may occur if all instructions of this installation method and floor preparation guide are not followed.
- ◆ Products should be staggered in brick laid pattern, stagger equal to half of a plank for the first 2 rows, and then at least 18" for the following rows.
- ◆ Spacers are required against walls to maintain proper distance based on the page 2 expansion guidelines. If the base board is already installed, we recommend that the base be undercut the thickness of the floor to allow it to have plenty of movement.
- ◆ Always allow proper expansion around a 100% of perimeter of the room and at all fixed objects/fixtures and pipes for any installation under 4,356 sq. ft. and runs less than 50 feet.
- ◆ For jobs above 4,356 sq. ft. and runs greater than 50 feet, use transition pieces and adhere to the expansion guidelines referenced on page 2.
- ◆ Cabinets may be installed over your flooring, but appropriate expansion areas must be maintained around any fixed objects including pipes. Cabinets should be fastened to the walls and not to the flooring.
- ◆ Do not allow screws or nails to penetrate flooring. This is a floating flooring system.
- ◆ If performing a **glue down installation**, properly read through the entirety of the subfloor requirements and instructions and then follow glue down installation instructions (starting on page #11). **Please note that you may only glue down this product with no pad or underlayment attached.**

MOISTURE MAP OF NORTH AMERICA



Expansion Requirements for Climate Zones

Specification	Dry Climate Zone 4-9	Temperate Climate Zone 7-10	Humid Climate Zone 8-13
7x48 8mm no pad	3/8"	3/8"	3/8"
7x48 8mm+1.5mm cork	3/8"	3/8"	3/8"
7x48 8mm+2mm pad	3/8"	3/8"	3/8"
7x60 8mm+2mm pad	3/8"	1/2"	1/2"
9x60 8mm+2mm pad	3/8"	1/2"	1/2"
7x60RL 10mm+2mm pad	3/8"	1/2"	1/2"
9x60 10mm+2mm pad	3/8"	1/2"	1/2"
9x60 12mm+2mm pad	3/8"	1/2"	1/2"

Please read BEFORE you begin installation.

We want you to be fully satisfied with your new floors.

We want you to be satisfied with your purchase. FROM THE CONSUMER, WE WILL UNCONDITIONALLY ACCEPT ALL FLOORING RETURNED IN FULL UNDAMAGED CARTONS.

PLEASE BE AWARE, YOU ARE RESPONSIBLE TO READ AND UNDERSTAND THE INSTALLATION PROCEDURES OR YOU CAN VOID YOUR WARRANTY.

SEE EXTERIOR OF BOX FOR WEBSITE INFORMATION PERTAINING TO THE INSTALLATION AND WARRANTY. IF YOU DON'T ACCEPT OR ARE UNABLE TO ACCESS THE WEBSITE, PLEASE RETURN ALL FLOORING TO THE RETAILER.

Retailer/Installer/Owner Responsibility:

Carefully inspect all flooring prior to installation for defects/objections:

TO REPLICATE NATURAL WOOD, WE CREATE A SLIGHT BACKGROUND COLOR VARIATION ON EACH PRODUCTION RUN. JUST LIKE REAL WOOD, THIS FLOORING WILL HAVE A NATURAL COLOR VARIATION. THEREFORE, BE SURE YOU ARE SATISFIED WITH THE BOXES YOU HAVE PURCHASED. IF YOU ARE IN ANY WAY DISSATISFIED, WE WILL UNCONDITIONALLY ACCEPT UNINSTALLED RETURNED PRODUCT. ONCE YOU INSTALL, THIS OFFER IS NO LONGER VALID.

Materials installed with visible defects are not covered under our warranty. This is an industry standard. Accepting or rejecting the material must be done on full cartons not plank by plank. We have one of the lowest warranty rates in the industry with the highest manufacturing standard in the industry. We want you to be satisfied with your purchase.

You MUST, as the final inspector, inspect for proper color, finish, style, and quality PRIOR to installation. Verify that the flooring is the correct material. Care should be taken at this time to remove or repair particular characteristics you do not desire.

IT IS YOUR RESPONSIBILITY TO INSPECT THE FLOORING BEFORE IT IS INSTALLED. IF YOU ARE NOT SATISFIED WITH THE FLOORING PRIOR TO INSTALLATION, CONTACT YOUR DEALER. DO NOT INSTALL THE FLOORING. IF YOU INSTALL THE FLOORING, YOU HAVE ACCEPTED ITS MANUFACTURED APPEARANCE.

MANUFACTURER SHALL NOT BE RESPONSIBLE FOR ANY COSTS INCURRED WHEN PLANK(S) WITH VISIBLE DEFECTS HAVE BEEN INSTALLED. A VISIBLE DEFECT IS ANY DEFECT THAT EXISTS BEFORE INSTALLATION AND WAS VISIBLE TO THE NAKED EYE.

The use of stain, filler, or putty stick for the correction of minor defects during installation should be accepted as normal procedure. An 8% cutting allowance, depending on layout, must be added to the actual square footage amount needed.

Inspect the Flooring – Inspect material for color, finish, milling, and grade. Remove pieces that may not be acceptable once installed.

PLEASE NOTE: We do not accept responsibility for any costs incurred when plank(s) with visible defects have been permanently installed.

Undercut Door Casings - Undercut all door casings 1/16" higher than the thickness of the flooring being installed. To do this, use a scrap piece of flooring as a guide. Lay it on the substrate and cut the casing with a handsaw or use a power jamb saw set at the correct height.

Blending of Cartons- To achieve a uniform appearance across the entire floor, we highly recommend that you open and work from several cartons at a time and dry-lay the flooring, mixing the planks from several cartons. This will allow you to blend the planks for maximum aesthetic appearance. Make certain the room is well lit to ensure color is consistent and that any visual defects can be seen and removed.

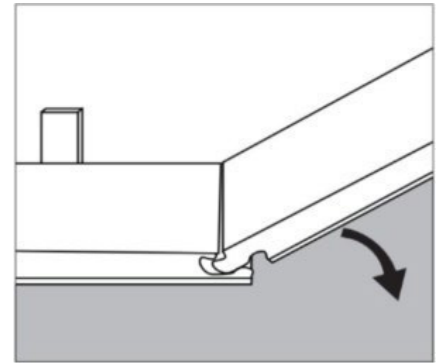
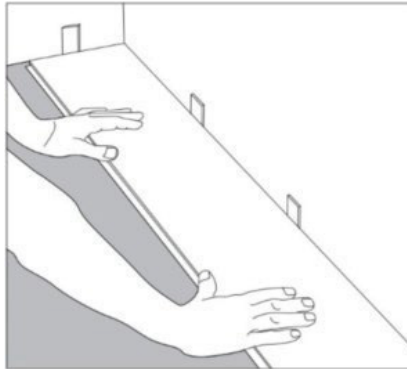
Match Transition Moldings: For best appearance blend all transitions and moldings to planks that have similar color and graining. Set them aside for use as needed.

Layout of Flooring: "Racking the Floor" is essential to achieve a random appearance. Start by cutting four or five planks in random lengths, differing by at least six inches. As you continue working across the floor try to maintain a nine-inch minimum between end joints. Randomly install different lengths to avoid a patterned appearance. Never waste materials; the end cuts from starter rows should be used at the opposite side of the room to complete rows or used to start the next row.

(Some installations will require a higher percentage.)

Uniclic Angle/Angle and Angle/Tap Installation Instructions Uniclic

Installation Video Linked Here: [Unilin Uniclic Angle Angle / Angle Tap Video](#)



NOTE

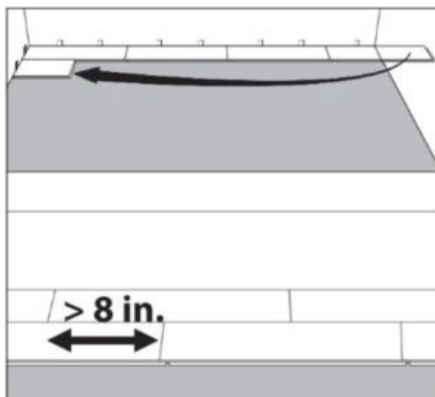
Products should be staggered in brick laid pattern, stagger equal to half of a plank for the first 2 rows, and then at least 18" for the following rows. Tools needed: pull bar, spacers, softfaced hammer, and tapping block

STEP 1

Leave a proper expansion gap according to page 1 of these instructions. Insert spacers to create proper expansion gaps at ends and edges where the planks will meet the walls and any vertical objects.

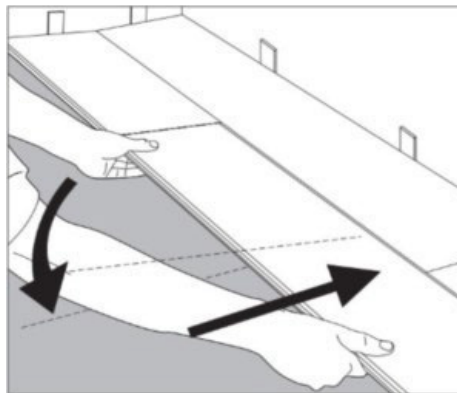
STEP 2

Start the first row by inserting the short end of the plank (tongue first) into the groove at an 20 to 30° angle, then rotating downward to lock it in place. Continue laying planks to establish the first row.



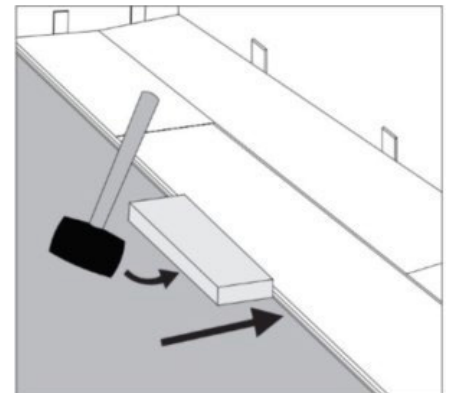
STEP 3

Use a cut piece to start the second row. NOTE: End joint spacing must be at least 8" for all adjacent rows



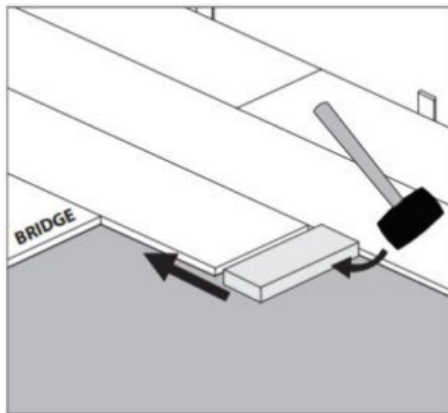
STEP 4

For additional rows, engage the locking system on the short side of the last plank installed by inserting the tongue at a 20 to 30° angle, then rotating downward. Slide this plank toward the long side of the previously installed plank, then engage the long side of the plank. Lift the other side up slightly, and push or pull the plank



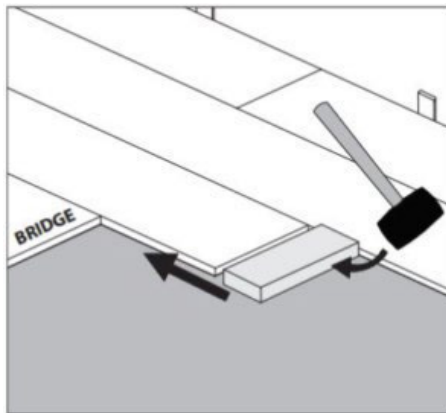
STEP 5

Use a scrap piece of flooring as a tapping block and tap on the long edge of the plank to ensure that the locking system fully engages. together until it clicks together



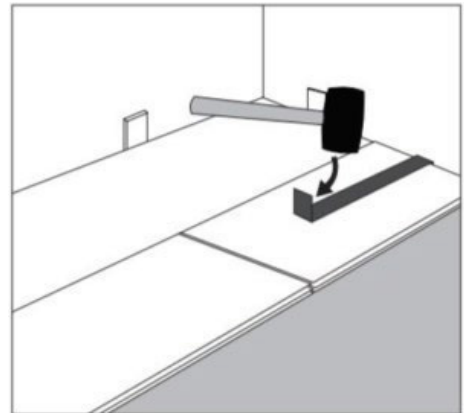
STEP 6

Use a cut piece to start the second row. NOTE: End joint spacing must be at least 8" for all adjacent rows.



STEP 7

Using a scrap piece (with a factory end joint) as a tapping block, tap the end of the plank to engage the locking system. Be cautious to not damage the locking profile when tapping. Continue installing until you reach the end of the row.



STEP 8

At the end of the row, use a hammer and pull bar to engage the locking system of the final piece in the row. Install a spacer at the row end. Repeat this process until the final row of flooring. At the final row, use the hammer and pull bar to lock the long edges of the planks as well as the row ends. When completed, pull all spacers and double check to ensure there is the required expansion gap.

Some forms of construction tape will permanently mar or damage the surface of this floor. Do not apply any forms of tape during installation. Tape damage is an exclusion, not a warranty item.

General Requirements:

It is the sole responsibility of the installer/owner, prior to installation, to assure that the planned installation area is suitable for the flooring and meets local building codes. Confirm that all subflooring meets or exceeds all industry standards and local building codes; as well as the recommendations listed herein. **The Manufacturer accepts no responsibility for product failure extending from or related to failure to meet job environment and subflooring requirements. The installer/owner assumes full responsibility for the final inspection of this product and that the selected product is the correct application for the installation site. The Manufacturer accepts no Responsibility or Warranty for product selection and its ability to properly perform this installation. This not only includes Manufacturer's product, but also any damages sustained to the subfloor or any other part of the installation environment.** Inspection should be done prior to installation and should include print/color/texture/ factory finish /visible conditions. If the product is not acceptable, DO NOT INSTALL IT. Contact your supplier immediately for assistance. Flooring that has been installed will be deemed to have been inspected and quality accepted. Manufacturer will not accept any responsibility for any flooring installed with visible defects. This product is waterproof but is not a moisture barrier. Water traveling over or around the outer edges of the flooring won't damage the structure of the flooring but can damage the subfloor. This damage to the subfloor is a site related condition and/or associated conditions are not warranted. In addition, other contaminants could migrate up in the moisture, as well. These are not manufacturing-related conditions and are not covered by your warranty. Elevated moisture levels below your flooring can migrate through the joints as vapor emissions, possibly causing a milky white appearance known as Blushing. Blushing is a site related condition, and thus is not covered by your warranty. It may dissipate once the moisture levels have decreased. When installing in a lavatory, bathroom, laundry room, or other area with frequent water usage, it is possible for water to travel under the floating floor and create bacterial growth and the problems associated with it. These are not manufacturing issues, not covered by your warranty, and should be mitigated before installing the flooring and should be dried, as necessary.

Preparing the Area:

TABLE #1: NFCA A21 Floor Flatness "length-to-deviation" Conversion Table

[The maximum vertical deviation (gap space) associated to a particular length of undulation.]

Undulation Length in Meters	Undulation Length in Millimeters	Undulation Length in Feet (rounded value)	Undulation Length in Inches	Deviation in Millimeters (mm)	Deviation in Inches (") (rounded value)
1.8	1829	6	72	2.9 (3)	1/8
0.9	914	3	36	1.4	(1/16)
0.5	508	1.5	20	0.8 (1)	1/32 **

- » Remove all furniture and appliances from the room(s)
- » Remove wall and doorway trim
- » Undercut door casings
- » Remove all debris and equipment that may damage finish
- » Do not install over soft, rough, uneven surfaces, or floating floors.
- » The Flooring should only be installed after all the other trades have finished and the jobsite has been cleared of any/all debris that could damage a finished installation.
- » All sub-floors and substrates must be clean, flat (smooth) and dry prior to installation. Please refer to Table #1 (Floor Flatness "length to deviation" Conversion Table) to ensure that the subfloor meets the requirements of flatness. Subfloors must have less undulation than 1/8" in 6', less than 1/16" in 3' and less than 1/32" in 1.5'.

» Sweep or vacuum your subfloor prior to installation ensuring nothing will interfere with the installation. All subfloors must be flat. Permanent HVAC should be on and operational a minimum of 5 days and maintained between 60 – 80 degrees (F) and a relative humidity of 35%- 55% prior to delivery, during, and after installation of the flooring.

Wood Subfloors

This product is suitable for installation over a minimum of 3/4" CDX Plywood, OSB, or APA approved plywood. All wood subfloors should be flat, structurally sound, and free from deflection (up and down movement). Sand high areas and fill low areas with a Portland based patching compound. To avoid squeaking of the subfloor, nail or screw the floor every 6". Repair or replace any damaged sheathing. Joist spacing should not exceed 19.2". Set fasteners 1/32" below the subfloor surface, sand joints, smooth and fill holes or gaps wider than 1/8 inch wide. Install suitable underlayment when necessary to achieve a flat or solid surface. Planks can be installed over underlayment grade plywood, lauan plywood and other underlayment recommended by the manufacturer for use with our monolithic waterproof flooring. Installation over oriented strand board and particle board is not recommended unless it is underlayment grade and non-weathered since these panels present a greater risk of sub-floor instability and can detract from the performance of the floor. Wooden subfloors installed over a crawl space should have a moisture barrier installed in the crawlspace with at least 18 inches of ground clearance with a black ground cover minimum 6mm thick Polyethylene overlapped a minimum of 6" (115 cm) and taped using a moisture resistant tape to avoid moisture migration from the ground up through the flooring. Cross ventilation (vents located around the perimeter) equal to 1.5% of the square footage of the area should be highly considered (if not already a local code). Wood floors installed directly on concrete or installed over sleeper construction are not satisfactory for installation and should be removed. Repair all squeaks prior to installation. Wood subflooring moisture should not exceed 15%. Install planks at a 90-degree angle to any existing wood floor. NOTE: Avoid subfloors with excessive vertical movement or deflection because subfloor movement will telegraph through to the finished installation. Indications of excessive deflection are subfloor fastener release, squeaking, compromised, or sectional contours such as bowing or dipping in floors and uneven flooring material. Nail or screw subfloor panels to secure boards with excessive vertical movement (deflection) before installation. If the subfloor has excessive vertical movement (deflection) before installation of the flooring, then it is likely it will do so after installation of the flooring is complete. Our warranties DO NOT cover any problems caused by inadequate substructures or improper installation of said structures. The suitability of any subfloor is the responsibility of the installer and the final consumer.

Concrete Subfloors

The flatness of concrete subfloors must meet or exceed the requirements of ACI FF25. Most concrete subfloors are not flat/smooth and must be properly prepared before installation. In all cases, verify the substrate is flat (See above subfloor and substrate requirements). All concrete floors must be properly cured and allowed to dry for at least 60 days after the curing process. This product can be installed over concrete on all grade levels. If the concrete slab has excess moisture, we recommend using a 6 mil poly. If the slab doesn't have excess moisture, the 6 mil poly is optional.

1. Jobsite Conditions

- a. Building must be fully enclosed with HVAC operational.
- b. Maintain room temperature between 60°F–80°F.
- c. Relative humidity must be between 35%–80%.
- d. Acclimate flooring in unopened cartons in installation area for 48–72 hours (or per manufacturer guidelines).

2. Subfloor Requirements

a. General Requirements (Both Gypcrete & Concrete)

i. Subfloor must be:

1. Structurally sound
2. Clean and debris-free

Dry 4.

Flat according to manufacturer instructions (see page 6).

- ii. Grind high spots and fill low spots with appropriate patching compound.
- iii. Remove paint, sealers, adhesives, drywall mud, and contaminants.

Moisture Testing (Recommended) – Our flooring is 100% waterproof and therefore water will not hurt this product, but exceeding these numbers can lead to many hazardous and damaging conditions (mold, mildew, rot) that are not covered by your warranty.

Perform one of the following tests:

- Calcium Chloride Test (ASTM F1869)
 - o Maximum: 3 lbs per 1,000 sq. ft. per 24 hours
- In-Situ RH Test (ASTM F2170)
 - o Maximum: 75% RH (or per manufacturer)

If moisture exceeds limits: Install an approved moisture mitigation system.

Vapor Barrier

- Seal with Primer L Acrylic Latex Primer or
- Install a 6-mil polyethylene vapor barrier over concrete
- Overlap seams 8" and tape with moisture-resistant tape.
- Run vapor barrier 2"–3" up walls (trim after base installation).

Gypcrete Subfloors

- Gypcrete must be fully cured (typically **30–90 days**, verify with builder).
- Surface must be:
 - o **Seal with Mapei Prime L Acrylic primer**
 - o Free of dusting or powder residue
- Lightly sand and vacuum if necessary.

Moisture Testing

- Use a pin-type moisture meter approved for gypsum underlayments.
- Moisture content must meet flooring manufacturer requirements (typically under 5% or per specification).

Vapor Barrier

- Follow flooring manufacturer recommendations.
- Most floating installations require 6-mil poly

Ceramic Tile and Terrazzo:

All wax and sealers must be removed with an appropriate cleaner/stripper. Ceramic tile and terrazzo should be abraded to allow for proper adhesion. Check for loose tiles by tapping and re-adhere. Fill grout lines with a cementitious latex fortified leveling compound. Resilient tile, resilient sheet vinyl: Material must be full spread and secured to the subfloor. Do not install over perimeter glued floors. Do not install over more than one layer that exceeds 1/8" in thickness.

Acoustic Cork Underlayment:

(Glue Down Only) – Install the cork underlayment according to the manufacturer's instructions. The cork underlayment must be fully adhered to the subfloor. The cork underlayment should be of pure granulated cork combined with a polyurethane binder with a minimum density of 11.4 lbs. per cubic foot and not to exceed 13 lbs. per cubic foot.

Radiant Heat Guidelines:

- Newly installed water-type radiant heating flooring systems should be in operation, with the temperature set between 64-72 °F, for a minimum of 4 weeks. This will ensure that any subfloor moisture has properly dried.
- Older/existing water-type radiant floor heating systems need to be fully pressure tested, properly maintained and set to a minimum of 64 °F for at least 4 days before delivery, acclimation or installation of the flooring begins.
- Electric mat or mesh radiant heating systems many times are not acceptable. They must be specifically designated as suitable for use with wood/laminate flooring systems by the manufacturer. Manufacturer makes no warranties as to their suitability and disclaims any defects caused by them.
- Always check wood sub-floors to ensure that the moisture content is less than 10% using an accurate wood moisture meter. Concrete sub-floors must register "dry" using a reliable concrete moisture meter.
- The PH level of concrete sub-floors should register between 6 and 9.
- Sub-floors must fully comply with Manufacturer "dry" requirements before proceeding with the delivery, acclimation, installation and any other required curing processes.
- Regulate the job site to ensure that the relative humidity is between 35 and 65 percent, and that the temperature is between 60 and 80 degrees F, throughout the flooring delivery, acclimation, and installation.
- After completing the installation, do not change/adjust the radiant heat settings for at least 48 hours. At any given time after the initial 48 hour period, the homeowner should only increase or decrease the temperature settings 4 to 5 degrees per day, so that the laminate flooring can gradually adjust to the temperature changes.
- Never raise the flooring surface temperature setting above 85 degrees F.
- It is important to note that when wood products are used over a radiant heating system, minor gapping can occur and should be expected. Maintaining consistent relative humidity levels will help to minimize this occurrence. Seasonal changes can also have the same effect on your flooring, so temperature and humidity controls should always be monitored to ensure the best performance.

Mold/Mildew

Mold/Mildew are not covered by your warranty and may destroy the functionality/aesthetics of your purchase. Mold/Mildew is a function of excessive moisture in the foundation/subfloor of your home or from a water source in your home.

Moisture

It is recommended that your slab have less than 3% Moisture content, 3 lbs/1000 sq ft/24 hours MVER and less than 75% RH. Exceeding these numbers will not directly damage this product but can lead to many hazardous and damaging conditions (mold, mildew, rot) that are not covered by your warranty.

MAINTENANCE TIPS:

Please see Manufacturer's Maintenance and Care Guide for more specific testing and guidelines for cleaning your floor. Place outside doormats in all outside doorways to reduce dirt and moisture. Wipe up all moisture spills immediately. Clean the floor often. Do not use excessive water. Do not use unapproved cleaners, soaps, or detergents. MANY OF THESE PRODUCTS WILL DESTROY THE FINISH ON YOUR FLOOR. BE VERY CAREFUL NOT TO USE CLOTHS CONTAMINATED WITH OTHER CLEANING PRODUCTS ON YOUR FLOORS. IT WILL VOID YOUR WARRANTY. BONA HARDWOOD FLOOR CLEANER AND TERRY CLOTH MOP KIT WILL REMOVE MOST SUBSTANCES FROM YOUR FLOOR.

RETAILER/INSTALLER/OWNER RESPONSIBILITY

Carefully inspect all flooring prior to installation for defects/objections: THIS NATURAL WOOD PRODUCT HAS A SLIGHT BACKGROUND COLOR VARIATION ON EACH PRODUCTION RUN. REAL WOOD WILL HAVE A NATURAL COLOR VARIATION. THEREFORE, BE SURE YOU ARE SATISFIED WITH THE BOXES YOU HAVE PURCHASED. IF YOU ARE IN ANY WAY DISSATISFIED, MANUFACTURER WILL UNCONDITIONALLY ACCEPT UNINSTALLED RETURNED PRODUCT. ONCE YOU INSTALL, THIS OFFER IS NO LONGER VALID.

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Gluing Down Uniclic Flooring on Concrete with Mapei Ultrabond ECO 995

THIS PRODUCT CAN ONLY BE GLUED DOWN IF THERE IS NO PAD ATTACHED

Please click the link below for a video to follow along with the written install instructions below. Please read ALL instructions before beginning to install this product.

[Uniclic Locking System Glue Down Installation Video - Youtube](#)

Please note that patch failure is not a manufacturing defect. If the adhesive fails or instances such as the patching of the subfloor does not cure long enough, causing the glue to fail, the flooring is not at fault, it is the responsibility of the patching company, and/or glue company, and/or installer.

Concrete Moisture Testing

- All concrete, regardless of age or grade level, has a certain degree of moisture and pH that should be analyzed and taken into account before the installation.
- When using MAPEI's wood adhesives without built-in moisture control, perform two pH alkalinity tests for every calcium chloride test. Concrete substrates should exhibit surface pH conditions between 9 and 11. Any pH levels higher than 11 may indicate serious moisture vapor transmission issues. Any pH levels below 9 may indicate the presence of a surface coating or residue remaining from an acid rinse; in this case, the coating/residue must be completely removed by mechanical abrasion, or the surface must be rinsed again with fresh clean water and allowed to dry. Note that pH tests are not required for MAPEI's moisture-controlling wood adhesives.
- Concrete moisture testing must be performed before the application of any MAPEI wood adhesive, unless otherwise stated. Refer to current Technical Data Sheets at www.mapei.com for specific limits on MAPEI's wood adhesives and surface-preparation products. Concrete substrates should have moisture conditions less than the desired stated limits for the installation material.

Two industry-accepted methods are used to evaluate the presence of moisture in concrete slabs: the Calcium Chloride Test Method, and the RH Moisture Probe Test Method.

1. Calcium Chloride Test Method (ASTM F1869) – Standard Test Method for Measuring Moisture Vapor Emission Rate (MVER) of Concrete Subfloor Using Anhydrous Calcium Chloride. When using the Calcium Chloride Test Method, if the concrete slab measures more than 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m²) per 24 hours, MAPEI also recommends an RH Moisture Probe Test. Follow the most current instructions set forth by ASTM F2170.
2. RH Moisture Probe Test Method (ASTM F2170) – Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in Situ Probes. When the RH Moisture Probe Test Method is used, if the concrete slab's relative humidity measures more than 80%, MAPEI also recommends a Calcium Chloride Test Method. Follow the most current instructions as set forth by ASTM F1869.
 - All concrete substrates must be free of any standing water during application and curing time.
 - All concrete substrates must be free of hydrostatic pressure.
 - All MAPEI products used in the flooring system (primers, levelers, membranes, patching compounds and adhesives) should be considered regarding the maximum allowable MVER and/or RH. Refer to MAPEI's current Technical Data Sheets regarding the maximum allowable MVER and RH for every MAPEI product to be used in the installation.

Installation Instructions

Patching Concrete Subfloor with MAPEI Mapecem Quickpatch for Glue-Down Monolithic Flooring

1. Inspect the Concrete Subfloor

Before beginning, inspect the concrete subfloor and identify:

- Cracks and joints
- Holes, voids and depressions
- High and low areas
- Weak, friable or deteriorated concrete
- Contaminants or existing adhesive residue

The concrete substrate must be structurally sound and at least **28 days old** before applying Mapecem Quickpatch.

Important: Mapecem Quickpatch is intended to repair and smooth the concrete surface. It does not eliminate the need to properly test the concrete for moisture before installing wood flooring.

2. Prepare the Concrete

Thoroughly remove all materials that could interfere with the bond, including:

- **Dust and dirt**
- **Oil and grease**
- **Paint**
- **Wax**
- **Tar or asphalt**
- **Sealers**
- **Curing compounds**
- **Laitance**
- **Loose concrete**
- **Existing adhesive residue**
- **Other bond-breaking contaminants**

Mechanically remove weak or deteriorated concrete until solid, sound concrete is exposed. MAPEI recommends a concrete surface profile of approximately **ICRI CSP #1 to #3**.

Vacuum the surface thoroughly after mechanical preparation.

3. Prepare the Concrete for Patching

For best results, the prepared concrete should be **saturated surface-dry (SSD)** before installing Mapecem Quickpatch.

SSD means the concrete has been dampened but has **no standing water or puddles** on the surface.

Do not apply Mapecem Quickpatch over a wet or visibly saturated surface.

4. Mix Mapecem Quickpatch

Use a clean mixing container and cool, clean, potable water.

For a **25-lb. bag**, use:

2.28 to 2.50 U.S. quarts of water

For a **50-lb. bag**, use:

4.56 to 5.00 U.S. quarts of water

Add the powder slowly to the measured water while mixing. Maintain the same water-to-powder ratio throughout the installation.

Do not overwater the material.

Mix only enough material that can be placed and finished within its working time.

5. Apply the Patch

Immediately after mixing:

1. Place Mapecem Quickpatch into the prepared area.
2. Work the material firmly into the concrete to establish a good mechanical bond.
3. Fill holes, voids and low areas.
4. Strike off the material to the desired elevation.
5. Feather or ramp the edges smoothly into the surrounding concrete where necessary.
6. Finish the surface so that it is smooth, dense and suitable for the wood-flooring adhesive.

Mapecem Quickpatch may be installed from **1/16" to 1-1/2" thick when used neat**. For applications from **1-1/2" to 3"**, neat Mapecem Quickpatch is limited to areas no larger than **24 sq. ft.** Larger or deeper repairs require the appropriate extension procedure specified by MAPEI.

6. Allow the Patch to Cure

Allow Mapecem Quickpatch to cure according to MAPEI's current Technical Data Sheet and the requirements of the wood-flooring adhesive.

For glue-down Monolithic flooring, MAPEI indicates that **moisture-controlling adhesives or moisture-mitigation systems may be used over Mapecem Quickpatch in as little as 16 hours**. Floor coverings may also be installed in as little as 16 hours when the existing subfloor meets the requirements of the adhesive or flooring system.

Do not rely on the 16-hour time alone if jobsite conditions, adhesive requirements, or moisture testing require additional time.

7. Final Surface Preparation

Before installing the wood flooring:

- **Verify the patched area is hard, dry and securely bonded.**
- **Remove all dust and loose particles.**
- **Grind or scrape any ridges, high spots or imperfections that could telegraph through the wood flooring.**
- **Vacuum thoroughly.**
- **Confirm the entire concrete subfloor meets the flatness requirements of the wood-flooring manufacturer.**
- **Complete required concrete moisture testing.**

The patched surface must be **smooth, sound, clean and suitable for the selected wood-flooring adhesive.**

8. Install the Glue-Down Monolithic Flooring

Once the patch has met the requirements for the selected adhesive, proceed with the glue-down wood-flooring installation.

If using **MAPEI Ultra bond ECO 995**, follow the current ECO 995 Technical Data Sheet for:

- Concrete moisture requirements
- Trowel selection
- Adhesive application
- Coverage
- Open/working time
- Wood-floor installation
- Cleanup
- Traffic restrictions

Important Installation Notes

Do not use Mapecem Quickpatch as a substitute for proper concrete moisture testing or a moisture-mitigation system.

If excessive concrete moisture is present, address the moisture condition before installing the wood flooring.

Cracks: Repair cracks using an appropriate MAPEI crack-repair system before patching. MAPEI notes that cracks can potentially telegraph through overlay materials even after repair.

Temperature: Follow the current MAPEI Technical Data Sheet for substrate and ambient temperature requirements. The current U.S. technical data specifies **45°F to 85°F** during application, with those conditions maintained for at least four hours afterward.

Manufacturer requirements: Always follow the current MAPEI Technical Data Sheet and the wood-flooring manufacturer's installation instructions. Where requirements differ, obtain written approval from the applicable technical department before installation.

Installation Instructions

Glue-Down Monolithic Flooring Over Concrete Using MAPEI Ultra bond ECO 995

1. Prepare the Concrete Subfloor

- The concrete must be structurally sound, dry, clean, and stable.
- Remove all dust, dirt, oil, grease, paint, curing compounds, sealers, old adhesive residue, and loose material.
- The concrete should have a porous, light broom-finished surface. Do not install directly over smooth, glass-like concrete.
- If the concrete is too smooth or nonporous, mechanically profile the surface by an approved method such as shotblasting, sandblasting, scarifying, or diamond grinding in small areas.
- The concrete must be flat to within **3/16" over a 10-foot span**.
- Any required patching or leveling should be completed with an appropriate cement-based MAPEI product and allowed to cure according to the manufacturer's instructions.
- Concrete should be at least **14 days old** and free of standing water or known hydrostatic moisture problems.

2. Check Moisture and Jobsite Conditions

Before installation, perform the required concrete moisture testing in accordance with ASTM requirements and the flooring manufacturer's instructions.

Do not install if the moisture conditions exceed the limits specified by MAPEI or the wood-flooring manufacturer.

Maintain job-site conditions within the product requirements:

- Substrate temperature: **50°F to 90°F**
- Ambient relative humidity: **20% to 80%**

The wood flooring should be acclimated and conditioned according to the flooring manufacturer's written instructions.

3. Select the Correct Trowel

Use the clip-on trowel attachment supplied with the MAPEI Ultra bond ECO 995.

Monolithic Floors

Use the **1/8" x 1/8" x 1/8" x 1/16"** notch.

4. Apply the MAPEI Ultra bond ECO 995

Ultra bond ECO 995 is a ready-to-use, one-component adhesive. **Do not mix.**

1. Using the flat side of the trowel, first **key the adhesive into the concrete**, creating a smooth, continuous, void-free layer.
2. Immediately apply additional adhesive using the appropriate notched side of the supplied trowel.
3. Hold the trowel at approximately **60° to 90°** to the concrete.
4. Keep the adhesive ridges perpendicular to the direction the wood flooring will be installed.
5. Apply enough adhesive to achieve **100% coverage of the concrete**, with no exposed concrete between the adhesive ridges.
6. Only spread as much adhesive as can be covered with flooring within approximately **45 to 60 minutes**.

5. Install Monolithic Wood

- Install the flooring immediately into the wet adhesive.
- Press the boards firmly into the adhesive bed.
- Make sure the adhesive ridges are completely compressed beneath the flooring.
- Periodically lift a board to verify proper adhesive transfer to the back of the flooring.
- Maintain the expansion gaps required by the manufacturer (found on page 2 of this document), around the perimeter and at all fixed objects.
- Follow the flooring manufacturer's instructions for board layout, staggering, transitions, and expansion requirements.
- Lay the first row along the chalk line with tongues facing out.
- Click boards together and press firmly into adhesive; tap gently with mallet and block. This product has a Uniclic locking system, meaning it is an angle/angle or angle/tap product. Please install the short end first, then lay the board down. Once the board has been engaged on the short end, you can now tap the product into place by tapping on the side of the long end without having to pick up the entire row of boards. Please click on the link below to see a short video of the installation of this locking system:

- [Uniclic Locking System Angle Tap - YouTube](#)

- Proper adhesive coverage is critical for both the performance of the floor and the moisture-control properties of the ECO 995 system. 16

6. Clean Up

Clean adhesive from the flooring surface and tools **while the adhesive is still fresh**.

MAPEI recommends Ultra bond Urethane Cleaner for cleaning fresh adhesive. Once ECO 995 cures, it becomes extremely difficult to remove.

7. Protect the Finished Floor

- Keep foot traffic off the newly installed floor for at least **12 hours**.
- Protect the installation from heavy traffic for at least **24 hours**.
- Maintain the temperature and humidity conditions recommended by the wood-flooring manufacturer after installation.

Important Notes

MAPEI Ultra bond ECO 995 is designed for interior glue-down wood flooring installations and provides **wood-flooring bonding, moisture-control, and sound-reduction properties** when installed according to MAPEI's requirements.

Always follow the current MAPEI Ultra bond ECO 995 Technical Data Sheet and the wood-flooring manufacturer's installation instructions. If the two manufacturers' requirements differ, obtain written direction from the appropriate technical department before installation.

For more details , please see Mapei's guides below to installing this flooring with wood adhesive. Please contact your sales representative with any questions you may have regarding installation.