

Parkway Glue Down - Luxury Plank/Tile

Installation Guidelines

GENERAL INFORMATION

These instructions cover all fully adhered installations of Parkway Glue Down. All recommendations are based on the most recent available information. The information on these sheets provides general guidelines. These instructions and recommendations must be followed for a satisfactory installation.

The installation of Parkway Glue Down is straight forward and similar to the installation procedures that apply to all quality resilient floors. Good preparation is essential for a trouble-free installation. Do not install Mannington On Main until job-site testing and subfloor preparations are finished and the work of all other trades is complete. Site conditions must comply with the relevant building codes and local, state and national regulations.

- Parkway Glue Down is recommended for use over properly prepared concrete, suspended wood, metal and other suitable substrates. Never install Parkway Glue Down over residual asphalt type (Cutback) adhesive as "Bleed Through" may occur.
- Parkway Glue Down is not suitable for external installation or unheated locations.
- Parkway Glue Down flooring, adhesive, jobsite and subfloor must be acclimated to a stable condition before installation. (See Job-site Testing).
- Following installation, Parkway Glue Down foot traffic should be minimized for 24 hours; point loads and rolling traffic should be minimized for 48 hours and utilize minimal wet cleaning for 5 days (except XpressStep).
- Once installed Parkway Glue Down temperature must be maintained above 55°F, for the life of the floor.
- Adhesive types can have a significantly different moisture tolerance which can influence required subfloor prep as well as install time.

MATERIAL RECEIVING, HANDLING & STORAGE

1. All floor covering products require care during storage and handling. It is important to store flooring products in a dry, temperature-controlled interior area.
2. Material must be conditioned for at least 48 hours before beginning the installation.
3. Flooring materials that are shipped in cartons must also be stored properly. Cartons must be kept squarely positioned on the pallet to prevent distortion of the contents and to be fully supported. Do not store close to exterior walls, in direct sunlight or near HVAC vents.
4. Stored cartons are to be protected from forklift and other traffic that can damage carton corners. Never double stack pallets of flooring products.
5. Immediately remove all shrink wrapping before acclimation and verify materials delivered are correct style, color and quantity.
6. Before starting the job, always check the flooring materials to ensure they are the correct pattern, quantity, and color. Inspect material closely for any visual defects.
7. Report discrepancies immediately to Mannington On Main at 1-800-241-2262 ext. 2 (Claims), as installation of products installed with visual defects, mixed production runs or incorrect style will not be honored.

JOBSITE TESTING AND CONDITIONS

1. Before job-site testing, the building envelope must be sealed (walls, roofing, windows, doorways etc., installed).
2. The installation area and materials to be installed shall be maintained at a minimum of 65°F (18.3°C) and a maximum of 85°F (29.4°C) for 48 hours before, during and for 48 hours after completion of the installation. Relative humidity level extremes should also be avoided. General recommended humidity control level is between 30–65%. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity.

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3. Test sites must be properly prepared and protected for the duration of testing to achieve valid results.
4. Surface flatness for all subfloors: The surface shall be flat to 3/16" (3.9mm) in 10 ft. (3050 mm) and 1/32" (0.8 mm) in 1 ft. (305 mm). To check flatness, place a 10-ft. straight edge, string, laser level or use another suitable method on the surface, and measure the gap.
5. Concrete subfloors:
 - Concrete floors must be finished, cured, and free of all sealers, coatings, finishes, dirt, film-forming curing compounds or other substances that may prevent proper bonding of the flooring materials (ACI 302.1 and ASTM F710).
 - Randomly check concrete subfloor for porosity using the drop water test. Place a single of water directly onto the concrete subfloor. If the water droplet does not dissipate within 1 minute, the subfloor is considered non-porous.
 - Concrete subfloors must have a minimum compressive strength of 3000 psi. Concrete subfloors shall not consist of lightweight concrete or gypsum.
 - Moisture testing: Perform either the preferred In-situ Relative Humidity (RH) Test (ASTM F2170) or the acceptable Moisture Vapor Emission Rate (MVER) Test (ASTM F1869). For acceptable moisture limits please refer to the specifications of the adhesive of choice.
 - Alkalinity: Must test surface alkalinity. When moisture is present excess alkalinity can potentially affect the product and the adhesive bond. See ASTM F710 and ASTM F3441 standards for measuring pH. The pH requirement is 7-9 pH unless the adhesive type permits a higher tolerance. To reduce pH, use our Mannington Premium Universal Primer.
6. Wood subfloors and underlayment panels shall have the moisture content tested using a suitable wood pin meter. Readings between the wood subfloor and underlayment should be within 3% and have a maximum moisture content of 14% or less.

MOISTURE SUPPRESSANT SYSTEM

Concrete subfloors that exceed adhesive specifications will require a Moisture Suppressant System. Due to complexities associated with moisture vapor transmission, emissions and movement of soluble salts (alkalinity) in concrete subfloors, we do not offer, recommend or warranty a specific solution for excess moisture in concrete slabs. However, there are many companies that offer solutions with warranties for excess moisture in concrete slabs.

Mannington On Main suggests that you reference the current ASTM F710, "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring," and ASTM F3010, "Standard Practice for Two Component Resin Based Membrane Forming Moisture Mitigation Systems for Use Under Resilient Flooring Systems." Contact one or more of the following or other moisture suppressant system suppliers for assistance:

Ardex: 724-203-5000, www.ardex.com
 Koester American Corp.: 757-425-1206, www.koesterusa.com
 Mapei: 800-426-2734, www.mapei.com
 Schonox: 855-391-2649, www.hpsubfloors.com
 Uzin: 800-505-4810, www.ufloorsystems.com

SUBFLOOR PREPARATION

Concrete

Careful subfloor preparation is vital for an excellent floor appearance and good tile/plank adhesion. The subfloor must be smooth, firm, flat, clean, dry, free from defects and fit for purpose. A suitable smoothing compound should be used to ensure that no irregularities show through to the surface of the finished floor. In all cases, the subfloor must meet the moisture and pH requirements before installation.

Below and on-grade concrete subfloors must have a suitable vapor retarder properly installed directly beneath the slab. Always follow manufacturer's written recommendations for the use and installation of their appropriate surface preparation materials.

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1. Record and file site conditions, test results and any corrective action(s) taken. It is important to maintain this documentation throughout the warranty period.
2. Subfloor must be clean (free of dirt, sealers, curing, hardening or parting compounds or any substance that may stain or prevent adhesion), smooth, flat, sound, fit for purpose and free of movement, excessive moisture and high alkalinity.
3. Slick surfaces such as power-troweled concrete shall be abraded or profiled to allow for a mechanical bond between the adhesive and subfloor.
4. Remove existing resilient floor covering; remove all residual adhesive, paint or other contaminants following RFCI recommended work practice. The use of adhesive removers or solvents in the abatement or removal of existing or old adhesives is prohibited and may void any warranty. **WARNING: ASBESTOS & SILICA** - Refer to the current Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Existing Resilient Floor Coverings" for guidance (www.RFCI.com).
5. Perform corrective actions necessary for elevated moisture or high alkalinity conditions.
6. Surface flatness for all subfloors: The surface shall be flat to 3/16" (3.9 mm) in 10 ft. and 1/32" (0.8 mm) in 1ft. Bring high spots level by sanding, grinding etc. and fill low spots. Smooth surface to prevent any irregularities or roughness from telegraphing through the new flooring.
7. Leveling and patching: For concrete subfloors, use only high quality Portland cement-based materials (minimum 3000 psi compressive strength according to ASTM C109 or ACI). Mix with water only; do not use latex. Caution: Do not lightly skim coat highly polished or slick power-troweled concrete surfaces. A thin film of floor patch will not bond to a slick subfloor and may become a bond breaker, causing flooring to release at the interface of the subfloor and patching material. If in doubt, perform a bond test prior to commencing with the installation.

Wood

1. All wood subfloor systems should be suspended at least 18" above ground with adequate cross ventilation and suitable vapor barrier.
2. Wood subfloors require an underlayment (double layer construction) with a minimum total thickness of 1" (25 mm). Use minimum 1/4" (6 mm) thick APA rated "underlayment grade" plywood with a fully sanded face, or other underlayment panel that is appropriate for the intended usage. Install and prepare panels and seams according to the manufacturer's instructions. Also refer to ASTM F1482, "Standard Practice for Installation and Preparation of Panel Underlayment's to Receive Resilient Flooring."
3. Many times, wood panel subfloors are damaged during the construction process or are not underlayment grade. These panels must be covered with an appropriate underlayment. Underlayment panels are intended to be used to provide a smooth surface on which to adhere the finished floor covering. It should be understood that underlayment panels cannot correct structural deficiencies.
4. Panels intended to be used as underlayment should be specifically designed for this purpose. These panels should have a minimum thickness of 1/4" (6 mm). Any panels selected as an underlayment must meet the following criteria:
 - Be dimensionally stable
 - Have a smooth, fully sanded face, so graining or texture will not telegraph through
 - Be resistant to both static and impact indentation
 - Be free of any surface components that may cause staining, such as plastic fillers, marking inks sealers, etc.
 - Be of uniform density, porosity and thickness
 - Have a written warranty for suitability and performance from the panel manufacturer, or have a history of proven performance
5. Any unevenness at the joints between panels must be sanded to a level surface. Gaps between panels, hammer indentations and all other surface irregularities must be filled and sanded.
6. Particleboard, chipboard, construction grade plywood, OSB, flake-board and wafer board are not recommended as underlayment's. All have inadequate uniformity, poor dimensional stability and variable surface porosity. Mannington Commercial will not accept responsibility for adhered installation over these subfloors. In all cases, the underlayment manufacturer or underlayment installer is responsible for all underlayment warranties.

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INSTALLATION PROCEDURE

Before starting the Mannington On Main installation, ensure the following are satisfactorily completed:

1. Expansion joints, isolation joints or other moving joints are incorporated into concrete floor slabs in order to permit movement without causing random cracks in the concrete. These joints must be honored and not filled with underlayment products or other materials, and floor coverings must not be laid over them. Expansion joint covering systems should be detailed by the architect or engineer based upon intended usage and aesthetic considerations.
2. Surface cracks, grooves, depressions, control joints or other non-moving joints, and other irregularities shall be filled or smoothed with high quality Portland cement-based patching or underlayment compound for filling or smoothing, or both. Patching or underlayment compound shall be moisture, mildew, and alkali-resistant, and shall provide a minimum of 3000 psi compressive strength after 28 days, when tested in accordance with ASTM C109 or ASTM C472, whichever is appropriate.
3. Subfloor preparation: Make sure all surfaces to be covered are completely clean, dry and smooth and that all necessary subfloor preparation has been properly completed and documented.
4. Inspect substrate: Perform final acceptance inspection of substrate.
5. Adjacent surfaces protection: Protect adjacent work areas and finish surfaces from damage during product installation.
6. Flooring protection: Mannington On Main Parkway Glue Down should be the last material installed to prevent other trades from disrupting the installation and adhesive set-up or damaging the floor.

Start of flooring installation indicates acceptance of current subfloor conditions and full responsibility for completed work.

Layout

Mannington On Main Parkway comes in plank and tile formats. Mannington Parkway can be laid out to run either parallel or diagonal to the room or primary wall.

- Tiles should be installed block or staggered; when quarter turned, arrows should alternate.
- Plank flooring should have end joints offset by at least 6" and staggered to create a random appearance that avoids alignment of end joints. All arrows should point in the same direction.

The following conditions must be given consideration when determining how Mannington On Main will be installed:

1. The layout shall be specified by end user, architect or designer.
2. Establish center marks and determine start point to balance installation in room and have equal tile widths on opposite sides of room. This can be facilitated by dry-laying tiles and marking base lines.
3. The room layout must be set up so that all flooring can be installed while staying off freshly installed tiles. This will minimize tile shifting, adhesive displacement and wet adhesive from oozing up and getting onto the face of the tiles. This can be accomplished by creating work zones outlined with chalk lines to spread adhesive aligned with established base lines. Create work zones that are no wider than the installers' comfortable arm reach and in multiples of the tile width.
4. All installations: Spread only the amount of adhesive that can be covered within the working time specific to the adhesive being used.

When all preparatory work is satisfactorily completed, including dry-fitting cut tiles (if applicable), proceed with installation. Inspect each tile for visual defects before installing. Installation of the flooring implies acceptance of materials.

Adhesives

Mannington On Main adhesives are specifically formulated to be fully compatible with backings and chemistry and to maximize the performance of Mannington Parkway products. Using substitutes or failing to use Mannington Commercial adhesives as recommended can cut short product life and cause installation failure.

Mannington On Main recommends the following adhesives for the installation of Parkway. Only these adhesives should be used. Other adhesives may not provide adequate performance and could result in a failure.

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1. Mannington M-Guard V-88 Adhesive: Moisture resistant transitional pressure sensitive adhesive. The maximum moisture limits for renovations or older slabs must not exceed moisture tolerances of 8 lbs. maximum MVER, 90% relative humidity and 10 pH. The maximum moisture limits for new construction concrete is 12 lbs. MVER, 99% relative humidity and 12 pH. The adhesive will not correct pre-existing moisture problems in older concrete subfloors. V-88 should be applied over porous subfloors using 1/16" x 1/32" x 1/32" U-notched trowel with an approximate spread rate of 250 sq. ft. per gallon, and over non-porous subfloors using a 1/16" x 1/32" x 5/64" U-notched trowel with an approximate spread rate of 350 sq. ft. per gallon. For non-porous substrates, adhesive must dry completely. See adhesive spec and label for details.
2. Mannington Commercial V-95 Adhesive: Solvent-free, 2-component epoxy adhesive for use on non-porous substrates, under hospital beds or operating room tables, in areas with heavy rolling loads, in areas subject to standing water or topical moisture and in areas where high performance is needed. The maximum moisture limits must be no greater than 5 lbs. MVER per ASTM F1869 and/or 85% maximum relative humidity per ASTM F2170 with a maximum limit of 9pH. V-95 should be applied with a 1/16" x 1/32" x 1/32" trowel with an approximate spread rate of 185–245 sq. ft. per gallon. See adhesive spec and label for details.
3. XpressStep Spray Adhesive: Water based spray adhesive recommended for the installation over porous and non-porous subfloors. Moisture limits are 10 lbs. maximum MVER or 95% relative humidity with a pH maximum limit of 11. Spread rate approximately 150-185 sq. ft. per can.

Mannington On Main will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer. The adhesives are designed to be moisture resistant to accommodate the water of hydration contained in new slabs or initial mixing; they are not to be considered remedial solutions to concrete subfloors with a history of moisture problems.

Important: Temperature directly affects adhesive working and setting times. Warmer temperatures shorten working times and colder temperatures lengthen working times of adhesive. Follow instructions on container for proper application.

Full Spread Installation

Adhesive application: Follow the instructions on the adhesive labels.

1. Use a trowel with appropriate notch size. Do not use worn trowels (approximately 600 sq. ft. usage on concrete).
2. Spread adhesive evenly with proper trowel held at 60-degree angle, avoiding skips or voids and excessive adhesive application.
3. Only spread sufficient adhesive that can be covered within the adhesive working time.
4. Tiles/planks must be placed into adhesive as specified (follow label directions).
5. Install rows to chalk line making sure tiles/planks are precisely aligned with chalk line and adjacent tiles.
6. Randomly check tiles/planks for complete coverage of adhesive onto back of tile, especially near the end of each adhesive spread. If there is little or no adhesive transfer, or if the adhesive has flashed off or skinned over, adequate bonding may not be possible. Scrape the flashed-off adhesive from the floor and spread fresh adhesive.
7. If tiles/planks shift, use releasable masking tape diagonally over seams to keep tiles tight and aligned.
8. Wet-set application: Do not work on top of freshly installed flooring. This will minimize tile/plank shifting and adhesive displacement and prevent wet adhesive from oozing up and getting onto the surface of the new flooring.
9. The floor must be rolled in both directions using a 100-lb. 3-section roller. Roll floor as soon as conditions permit, without the tiles/planks sliding or adhesive bleeding to the surface. Roll floor again, 90 degrees to the first direction, within 1 hour.

Adhesives should provide 100% uniform adhesive transfer (no visible trowel ridges) onto the back of the tile/plank, and not cause adhesive to squeeze out between tiles/planks. Pressure Sensitive Adhesive will not transfer 100% to the backing of the tile/plank. Be sure not to exceed the 3-hour working time.

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10. Clean excess adhesive as you install, before it is allowed to dry. Use a soapy, clean, soft cloth to remove wet excess adhesive.
11. Clean up all debris as you work.
12. Wait 24 hours for normal foot traffic and 48 hours for point and rolling loads after installation.
13. During first five days, minimize heavy wet cleaning to allow adhesive to fully set.

SPECIAL CONSIDERATIONS

1. Radiant heat: Mannington On Main can be installed over radiant heating (hydronic) systems. The maximum temperature of the subfloor surface must not exceed 85°F. Before installing flooring products over newly constructed radiant heating systems, operate the system at maximum capacity to force any residual moisture from the cementitious topping of the radiant heating system. The system must be switched off for a minimum of 48 hours before, during and 48 hours after flooring installation.
2. Direct sunlight: Installations in areas where there is heavy direct sunlight exposure for long periods of time should utilize window treatments and V-95 or MoistureLoc Adhesive in these areas.
3. Protecting new installations: New installations must be protected while the adhesive cures. Early foot traffic point or rolling loads can cause adhesive displacement or breaking of the bond between the adhesive and the tile or substrate.

MAINTENANCE PRECAUTIONS & SAFETY INFORMATION

Effective maintenance includes promptly removing all spills and then thoroughly cleaning with a diluted neutral cleaner or cleaner/maintainer solution. Failure to establish an effective routine maintenance program will not only detract from the appearance of the floor but may shorten its useful life. For complete details refer to Mannington On Main's maintenance guidelines.

Safety first: Before commencing work, put out signs or safety cones to warn that cleaning is in progress. A slippery floor can cause accidents. Slipperiness can be caused by poor maintenance, surface contamination, spills or when the floor is wet. All hard floors can be slippery when wet. Ensure the floor is clean and dry before resuming use. Use warning signs in commercial areas when performing maintenance or cleaning spills.

For more information, contact Mannington On Main Technical Services at 800-241-2262 ext. 3 or visit manningtononmain.com.