

Rubber Tile with QuickStix® Installation Guidelines

GENERAL INFORMATION

All recommendations are based on the most recent available information. The information in these sheets provides general guidelines. All instructions and recommendations must be followed for satisfactory installation. These installation specifications address the installation of ColorFields, ColorScape, ColorSpec, Open Range, Reset and Teles rubber tile with QuickStix pre-applied adhesive.

Good preparation is essential for a trouble-free installation. Do **NOT** install Mannington Rubber tile with QuickStix until job site testing and subfloor preparations are finished and the work of all other trades is complete. Site conditions must comply with relevant building codes and local, state and national regulations.

- Mannington QuickStix is recommended for use over properly prepared concrete, suspended wood, metal and other suitable substrates.
- Never install Mannington QuickStix over residual asphalt type (Cutback) adhesive as "Bleed Through" and bonding failure may occur.
- Mannington QuickStix is not suitable for external installation or unheated locations.
- Mannington flooring, jobsite and subfloor must be acclimated to a stable condition before installation (See Job site testing).
- Immediate foot traffic and full use is allowed once the QuickStix is completed.
- Mannington Quickstix should remain at a temperature between 55° - 85° F (13° -29° C) during its service life.
- Mannington Commercial rubber tile flooring with QuickStix is a pre-cured adhesive system. Combined with the Mannington Universal Primer on new slabs, it allows for no pH limitations and moisture resistance up to 95% RH. Use one coat of primer for 95% RH and below.

MATERIAL RECEIVING, HANDLING & STORAGE

- Remove all shrink wrapping and check style and color. Rubber tile with QuickStix should be inspected prior to installation for proper style, color and potential defects.
- No claims will be honored if products are installed with visible defects. Report discrepancies immediately to Mannington Commercial at 800.241.2262 ext. 2 (claims).
- If storing for more than 2 days prior to installation, store all material in a weather-tight enclosure. Do not stack skids, or other materials on tiles. If the tiles are to be re-stacked, the tiles must be stacked profile to profile and back to back to avoid mold release or wax transfer from the profile side to the back side.
- Direct Sunlight. Protect the materials from the sunlight during storage, conditioning before and after installation.
- Read instructions. Read all instructions prior to beginning installation.
- Rubber tile and QuickStix is recommended for use over properly prepared concrete, suspended wood, metal and other suitable substrate.
- Material conditions. Rubber tile with QuickStix and Primer should remain at a temperature between 65°-85°F with ambient humidity between 50-80% for 48-72 hours before, during installation and at least 48-72 hours after installation. In severe climates an 8 days conditioning period may be necessary.

JOBSITE TESTING AND CONDITIONS

1. Before jobsite 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 after completion of the installation. Relative humidity level extremes should also be avoided. General recommended humidity control level is between 35-55%. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration.
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" (4.7 mm) in 10 ft. (3,050 mm) and 1/32" (0.8 mm) in 1 Ft. (305 mm). To check flatness, place a 10 ft straight edge, string line, laser level or use another recognized industry method on the surface to measure the undulation.
5. Moisture Testing: Perform the In-situ Relative Humidity (RH) Test (ASTM F2170) QuickStix is warranted up to 95% RH and no PH limit when using primer.
6. Record and file site conditions, test results and any corrective action(s) taken. It is important to maintain this documentation throughout the warranty period.

MANNINGTON PREMIUM UNIVERSAL PRIMER

The use of Mannington Premium Universal Primer is required for the installation of Mannington QuickStix products. All bond warranties will be voided if the Mannington primer is not used, as required.

FOR USE ON: above and below grade concrete, gypsum, and wood substrates and all patching and leveling compounds. Before the application of Mannington's primer, the substrate must be prepped following ASTM F710. The floor must be flat, smooth, and free of any contaminants. Follow sub-floor condition requirements. Thoroughly clean the floor by sweeping, vacuuming, and/or mopping to remove all dust and debris.

APPLICATION: The use of a smooth napped or microfiber roller is recommended. Apply a smooth even coat of primer using slight pressure. Avoid leaving puddles or heavy roller bead/ lines. Cover all areas leaving no bare or dry spots rolling in both directions. Allow the primer to completely dry. Normal dry time will vary, approximately one-half hour - one hour, check for dry to the touch. If needed allow more time before installation starts and/or before applying second coat, if required. Clean up all spills or over application to walls or base while the product is wet. Use clean soapy water to remove all excess.

SUBFLOOR PREPARATION

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.

Concrete Subfloors

1. 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. New concrete subfloors should be allowed to cure a minimum of 6 weeks (45 days).

2. Concrete subfloors must be finished and cured without additives, curing compounds, hardeners or surface treatments that may prevent proper bonding of the flooring materials per ACI 302.1 / ASTM F710.
3. Randomly check concrete subfloor for porosity using the drop water test. Place a 1" diameter drop of water directly onto the concrete subfloor. If the water droplet does not dissipate within 60-90 seconds, the subfloor is considered non-porous.
4. Concrete subfloors must have a minimum compressive strength of 3,000 psi. Concrete subfloors shall not consist of light weight concrete or gypsum.
5. 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.
6. Concrete subfloors shall not consist of lightweight concrete or gypsum with less than 105 lbs. /cubic foot density (3000 psi). Follow ASTM F2678.
7. Remove all existing floor coverings and adhesives/residues, marking paint, permanent markers, crayons, and all other potential stains from the concrete surface before installing new flooring. Never mark the back of the flooring. Removal of old adhesives must be performed by mechanical means: scraping, scarifying, grinding, shot/bead blasting, etc. The use of adhesive removers or solvents in the abatement or removal of existing or old adhesives is prohibited and will void all warranties.
8. **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).**
9. Perform corrective actions necessary for elevated moisture or high alkalinity conditions.
10. 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 be 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.
11. Surface flatness for all subfloors: The surface shall be flat to 3/16" (3.9 mm) in 10 ft. (3050 mm) and 1/32" (0.8 mm) in 1 ft. (305 mm). 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
12. Leveling and Patching: Surface cracks, grooves, depressions, control joints or other non-moving joints, and other irregularities shall be filled or smoothed with high quality Moisture Resistant Portland cement-based patching or underlayment compound. 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 tiles to release at the interface of the subfloor and patching material. If in doubt, perform a bond test prior to installation.
13. Always follow manufacturers' written recommendations for the use and installation of their appropriate surface preparation material.

NOTE: It is not recommended to install QuickStix rubber over concrete slabs with a history of hydrostatic conditions. Mannington also will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission exceeding the requirements set forth. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

OTHER SUBFLOOR TYPES

Any subfloor surface must be smooth, level, clean, and secure prior to installing Mannington Commercial floor covering products. To achieve maximum product performance, it is always best to remove existing floor covering and prepare the substrate before installing new products.

- Wood floors must be smooth and level. If floor is uneven, an approved underlayment may be required. Plywood

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sheets must be solid and secure. Plywood seams may need to be sanded smooth. Dust must be thoroughly vacuumed. Fire-retardant plywood is not recommended.

- 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.
- Wooden plank flooring should be covered with plywood as detailed above as stable, flat, and suitable for installation.
- Terrazzo/Marble. Level all grout lines with a latex based Portland cement patching compound. Glossy surfaces must be sanded for adhesive bond.
- **Do not install rubber flooring over any existing floor covering.**

INSTALLATION PROCEDURE

Before starting the Rubber tile with QuickStix installation, ensure the following are satisfactorily completed.

- Acclimation: 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 35-55%. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration.
- Flooring materials: Check that the quantity of Mannington Commercial Rubber with QuickStix is sufficient for area to be installed. Check material for visual defects before installation. Installation of flooring acknowledges acceptance of materials. Report discrepancies immediately to Mannington Commercial at 800.241.2262 ext. 2 (Claims), as installation of products installed with visual defects, mixed production runs or incorrect style will not be honored.
- Moisture testing (RH): Testing shall be performed before installation in accordance with ASTM F2170.
- Perform a bond test with a minimum 1' by 1' primed area every 1000 ft² to ensure proper adhesion. Test a minimum of 3 areas per project. Wait 10 minutes before lifting the bond tests. If bond tests can be lifted without significant effort, contact Mannington Commercial at 800.241.2262 ext. 3 before proceeding with installation.
- 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.
- 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.
- 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.
- Inspect substrate: Perform final acceptance inspection of substrate.
- Adjacent surfaces protection: Protect adjacent work areas and finish surfaces from damage during product installation.
- Flooring protection: Mannington Commercial Rubber with QuickStix 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.

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LAYOUT:

Layout shall be specified by end user, architect or designer.

- 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.
- Install rows to chalk line making sure tiles are precisely aligned with chalk line and adjacent tiles. Start straight and stay straight.
- Pre-cut all wall and trim piece before the removal of the protective paper. 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.

NOTE: Tile should be installed running in the same direction (block or staggered).

The following conditions must be given consideration when determining how Rubber tiles will be installed:

- Dry-lay rubber tile is required.
- Lighting conditions must be bright enough to observe color consistency, registration and seaming quality during dry-lay inspection.
- Dry-lay an entire floor by sections, positioning the tiles point to point.
- Line up the first row of Mannington tile with a chalk line.
- Lay a second row again point to point.
- Continue with the installation. Covering the entire floor.

NOTE: When all preparatory work is satisfactorily completed, including dry-lay rubber tiles, proceed with installation. Inspect each rubber tile for visual defects before installing. Installation of the flooring implies acceptance of materials. It is the installers responsibility to inspect the dry laid installation and notify the appropriate authority of any imperfection, or irregularities prior to final installation.

Installation

- Start installing by peeling QuickStix protective film and adhering the tile/plank, keeping the Rubber straight to the pre-marked lines. Keep each section of the subfloor free of debris, dust, etc. as you install.
- The floor must be rolled in both directions using a 100 lb. 3-section roller. Roll the floor as soon as conditions permit. Roll floor again 90 degrees to the first row to assure good transfer of QuickStix adhesive to the substrate.
- Clean up all debris as you work. Caution not to allow the adhesive film to make contact with the newly installed flooring surface. Clean up immediately to keep from attracting dirt.
- Immediate foot traffic and point and rolling loads can be utilized after installation.
- When making cuts to vertical surfaces do not cut full. Net fit is needed so the tile will not buckle.
- Wait 5 days after installation before washing finished floor.
- Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
- Flooring Protection: Mannington Rubber with QuickStix should be the last material installed to prevent other trades from disrupting the installation or damaging the floor.

Helpful Tips:

- If needed, when placing the tile with QuickStix, the use of a slight mist of water on the substrate will help in adjusting the product. Use clean water; the spray bottle can be purchased from your local hardware store.

Installation Guidelines

- Do not allow the adhesive film to make contact with the walls, baseboards or any other object except the intended sub-floor. Clean all areas with the appropriate adhesive remover.
- Dispose of release paper as you install, keeping immediate work area clean.
- Keep cut pieces and scrap flooring off installed surface. Adhesive residue on flooring surface can appear as visible scuffs as it attracts dirt.
- Any adhesive residue on flooring surface can be easily removed using a cloth dampened with mineral spirits or denatured alcohol. Never pour cleaning agent directly onto the Rubber Tiles. Always apply to a clean white cloth first.

SPECIAL CONSIDERATIONS

- **Radiant Heat:** Mannington Commercial Rubber can be installed over Radiant heating (hydroponic) systems. The maximum temperature of the subfloor surface must not exceed 85°F (29°C). 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 heat must be turned off 48 hours before, during and 48 hours after installation on new and existing systems.
- **Direct Sunlight:** Installations in areas where there is direct sunlight exposure for long periods of time should utilize window treatments prior to and during the installation, and for 48 hours after the installation.
- **Protecting New Installations:** New Installations should be protected from all construction or trade dust and debris with proper floor protection.

For more Information, please contact Mannington Commercial Technical Services at 800.241.2262 ext. 3 or visit manningtoncommercial.com.