



## INSTALLATION GUIDELINES

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# Rubber Tile or Sheet with QuickStix® Field Applied Tape

### 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 Tile and Sheet, ColorScape, ColorSpec, and Teles rubber tile with QuickStix field-applied adhesive tape. Do NOT use with Reset crumb rubber flooring.

Good preparation is essential for a trouble-free installation. Do NOT install Mannington Rubber tile or sheet with QuickStix tape 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.
- Check that the quantity of flooring is enough for the area to be installed. Check for visual defects before installation. No claims will be honored for products installed with visible defects. Installation of flooring acknowledges acceptance of materials. Report discrepancies immediately to Mannington Commercial at 1.800.241.2262. ext. 2 (Claims)
- Never install Mannington QuickStix over residual asphalt type (Cutback) adhesive as "Bleed Through" and bond 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 installation is completed.
- Mannington QuickStix should remain at a temperature between 55°- 85° F (13°-29° C) during its service life.

- Following installation, immediate foot traffic and point and rolling loads can be utilized.
- Mannington Commercial rubber tile and sheet flooring installed with QuickStix tape, combined with the Mannington Universal Primer allows for up to 90% RH and a pH limit of 10.

## **MATERIAL RECEIVING, HANDLING AND STORAGE**

- Remove all shrink wrapping and check style and color. Rubber tile and sheet should be inspected prior to installation for proper style, color, and potential defects.
- 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.
- Do not store product close to exterior walls, in direct sunlight or near HVAC vents.
- Rubber tile and sheet installed with QuickStix tape and Primer should remain at a temperature between 65°-85°F with ambient humidity between 35-55% for 48-72 hours before, during installation and at least 48-72 hours after installation. In severe climates an 8-day conditioning period may be necessary.

## **JOB SITE 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 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 90% RH and 10 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.
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. 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.

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The use of adhesive removers or solvents in the abatement or removal of existing or old adhesives is prohibited and will void all warranties.

7. **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](http://www.RFCI.com)).
8. Perform corrective actions necessary for elevated moisture or high alkalinity conditions.
9. 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.
10. 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
11. 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.
12. Always follow manufacturers' written recommendations for the use and installation of their appropriate surface preparation material.

**NOTE:** It is not recommended to install QuickStix tape for 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, 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 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.

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- 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 and sheet with QuickStix tape 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 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 ft<sup>2</sup> 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.
- 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 tape 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.

### Installation of tape to Subfloor

- Mannington QuickStix Tape for Rubber Tile and Sheet should be installed prior to dry-laying floor.
- Carefully vacuum the installation area and remove all loose debris.

- Apply primer and allow to dry to touch
- Vacuum the installation area and remove any remaining loose debris prior to laying tape into dry primer.
- Unroll QuickStix tape starting in one room corner, while pressing into place as material is unrolled using a stiff bristle broom to push out air pockets and transfer the tape to the floor.
- Overlap all joining tape seams by at least ½". Allow at least 15 minutes after setting tape before double cutting overlapping seams.
- When butting tape edges together, leave no more than a 1/8" gap between tape runs to ensure a warranted bond.
- Clean up all debris as you work. Caution not to allow the adhesive film to contact the newly installed flooring surface. Clean up immediately to keep from attracting dirt.
- Only remove paper liner for flooring being installed.
- Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
- Flooring Protection: Mannington Rubber with QuickStix tape should be the last material installed to prevent other trades from disrupting the installation or damaging the floor.

## **Installation of Flooring to Tape**

### **LAYOUT:**

- 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 on top of wax paper.
- 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 pieces before the removal of the protective paper liner. 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.
- When making cuts to vertical surfaces do not cut full. Net fit is needed so the tile will not buckle.
- Line up the first row of Mannington tile with a chalk line on top of unpeeled wax paper.

- Peel back wax paper one row at a time, do not peel paper from entire floor at once to minimize adhesive contamination. Only peel the wax paper from the area being immediately installed.
- Lay a second row again point to point peeling back the wax paper as you install.
- Continue with the installation. Covering the entire floor.
- Roll immediately with a 3 section 75 – 100 lb. roller.
- Immediate foot traffic and point and rolling loads can be utilized after installation.
- Wait 5 days after installation before washing finished floor.

NOTE: When all preparatory work is satisfactorily completed, including dry-lay rubber tiles, proceed with installation. Inspect each rubber tile and/or sheet 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

#### Helpful Tips:

- If needed, when placing the QuickStix tape, 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.
- Do not allow the adhesive film to contact 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](http://manningtoncommercial.com).