

FLEXFORM SOUND (5.0mm) PLANK INSTALLATION GUIDE



All instructions and recommendations in this guide are based on the most recent information and installation techniques available. Please follow this guide to ensure a trouble free and warranty supported installation.

Always check millikenfloors.com for latest installation, warranty, and maintenance guides. It is the responsibility of the installer to ensure that the most current documents are used during installation.

Installation contractor is responsible for reasonable inspection of the products prior to installation and for maintenance of dye lot integrity during installation. Milliken will not be responsible for visible defects after LVT has been installed.

Contact Milliken Technical support if there are any specific concerns or questions prior to installation.

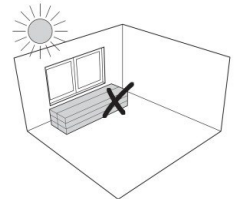
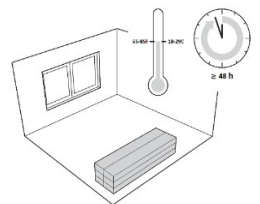
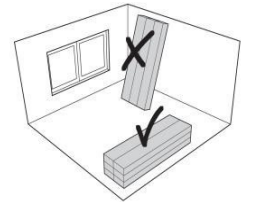
Highlights for the Flexform Sound Product

1. To prevent problems and general movement of FlexForm Sound 5.0mm LVT, areas to receive flooring shall be permanently dry, clean, smooth, level and structurally sound. They shall be free of all contaminants, including but not limited to dust, solvents, paint, wax, oil, grease, residual adhesive, adhesive removers, curing, sealing, hardening, or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew; any foreign material that might prevent a proper adhesive bond.
2. All subfloor patching must be done with a non-shrinking, moisture resistant Portland cement patching compound.
3. Milliken requires full-spread coverage of adhesive in all areas of installation. Adhesives used with this product must be approved by Milliken. The following instructions are for LVT only spaces OR for spaces where separate adhesives are used for the LVT and carpet installations.
 - a **The Flexform Sound product is not suitable for subfloors with a RH moisture $\geq 95\%$.** Please contact your Milliken sales associate or Milliken Technical Support at 1-800-528-8453 – Option #2 for recommendations of other Milliken LVT product solutions $\geq 95\%$ RH.
 - b **For subfloors with a RH moisture $< 95\%$, a full-spread, SEMI-WET installation OR a full-spread WET installation with Milliken Mosaic 95 adhesive is required.** The installer can work “on-the-product” with SEMI-WET method or “off-the-product” with WET method.
 - 1 For semi-wet installation, the adhesive is troweled onto the floor and partially dried where the thinner “valleys” of the troweled adhesive start to dry clear, but the “ridges” are still wet and cloudy. It is essential that the adhesive sticks to both the backing of the tile and to the subfloor.
 - a Trowel Application: 1/16" x 1/16" x 1/32" U notch
 - b Spread rate 185 - 245 sq. ft per gallon (trowel)
 - c **Non-adhesive installation methods such as DRY-LAY and/or LOOSE-LAY are not permitted, nor are Dry PSA type installations. Any claim related to non-Milliken adhesive performance, workmanship, or damage is the total responsibility of the party responsible for installation.**
4. All adhesive installed planks or tiles must be rolled with a 3 section 100-pound roller.
5. **Expansion gaps of 1/4-inch are required at every vertical surface (walls, built-in furniture, columns, etc.).**
6. Doorways and archways must have a suitable “T” molding installed to protect the exposed edges of the flooring, and cover 1/4-inch installation gap. Use a full-spread coverage of adhesive to keep flooring from movement.

7. A recommended vendor for color-matched caulk for sealing expansion gaps, bathroom perimeters, tub/shower, toilet gaps, etc. is Color-Rite Inc.: <https://colorriteinc.com/color-rite/>. 855-822-2855.
8. Product not suitable for installation over Radiant Heated floors and Raised Access floors. Please contact Milliken Technical support for alternative product solutions.
9. When a single adhesive application system is desired for installing Milliken Modular Landscapes (Flexform Sound LVT and Milliken Modular CARPET together), special instructions are found separately at https://floors.milliken.com/floors/en-us/technical/technical-documentation#MainContainer_C169_Col00. This single adhesive system is only allowed for Hospitality rooms only.

Product Handling and Site Conditions

1. **Never** install LVT outdoors.
2. Check batch and product details and quantity are correct and match purchase order.
3. Inspect your shipment of LVT to ensure that all cartons are of the same lot/manufacturing run.
4. Store cartons of tile and/or plank with cartons stacked one on top of the other. Do not store on end or sides or allow cartons to bend during storage or transportation.
5. Acclimate product to job site conditions by delivering all materials, including adhesives and maintenance products, to the job site at least 48 hours prior to installation. Store all products at 65° to 85° Fahrenheit (18° to 29° Celsius) for 48 hours prior to installation. Unpalletized boxes laid on flat surface will acclimate more evenly. Floorcoverings left stacked may take longer to acclimate.
6. The space where flooring is to be installed shall be fully enclosed and the permanent HVAC system shall be operational prior to installing flooring. The temperature shall be 65° to 85° Fahrenheit (18° to 29° Celsius) for 48 hours before installation, during installation and for 48 hours after installation. The temperature of the space shall be kept at a minimum of 50° Fahrenheit (10° Celsius) continually after installation.
7. FlexForm vinyl floors should be protected from direct sunlight and not exposed to intense direct sunlight for extended periods of time. Milliken recommends suitable UV window coverings be in use in areas of large amounts of direct sunlight exposure. Unprotected window exposure can allow heat generation / thermal expansion which can create buckling problems.
8. To prevent damage to the newly installed flooring, the installation of flooring products should be installed after all other trades have completed their work. To further prevent damage after install until space is occupied, use of a reinforced fiber-based temporary floor protector product is strongly recommended.
9. To minimize shade variation during installation of Milliken FlexForm Sound 5.0mm LVT, mix and install planks from several different cartons. Do not mix different batches.
10. Install flooring perpendicular to direct light sources, including large windows, etc. Use of suitable window coverings during the times of most direct sunlight is recommended.



APPROVED SUBSTRATES

All substrates regardless of composition must be smooth and flat to within 1/8" (3.75mm) in 10 feet or achieve an "F50" rating by use of mechanical grinding/sanding or suitable moisture resistant Portland cement-based patching and leveling compounds. For more detailed instructions for substrate preparation, see subsequent section, "Substrate Preparation".

- Above-grade, on-grade, or below-grade concrete without hydrostatic pressure, or alkalinity. **RH Moisture must be <95%**. Must be fully cured and dry, free from curing compounds, sealers etc.
- Above-grade or on-grade lightweight concrete, properly prepared and without hydrostatic pressure or alkalinity. **RH Moisture must be <95%**.
- Above-grade or on-grade Gypsum concrete surfaces, properly prepared, sealed and without hydrostatic pressure or alkalinity. **RH Moisture must be <95%**.

- Properly prepared and well bonded existing resilient floor covering.
- Cement Terrazzo, ceramic tile, marble – see adhesive for proper preparation.
- Certain metal floors – see adhesive for proper types and preparation. May require use of a 2-part epoxy, contact Milliken Technical Support for assistance.
- APA registered underlayment, sanded face exterior grade with minimum rating of B-C plugged face.
- APA registered exterior grade plywood sanded and plugged face with ratings as follows: B-C, or better.

The following are **NOT** approved substrates for installing Milliken FlexForm Sound 5.0mm Luxury Vinyl Tile:

- Raised Access flooring – Contact Milliken Technical as permanent adhesive may be allowed.
- Epoxy terrazzo
- Rubber, cork, or asphalt tiles
- Textured or cushion backed resilient flooring
- “Sleeper” floor systems and other uneven or unstable substrates
- Plywood floors that have been installed directly over a concrete slab
- Luan, OSB, particle or chip boards, CCA (pressure treated), oil treated or other coated plywood
- Advantech OSB as LVT is to be glued down (OSB must be covered with appropriate plywood).
- CDX or other plywood with knots or open defects
- Underlayment made of pine, cork, or other soft woods
- No underlayments at the surface of the structural subfloor are allowed, including rubber, polyurethane, cork, and plastic foam.
- Masonite™ or other hardboard underlayment
- Hardwood flooring
- Radiant heated floors
- Uneven or unstable substrates
- Paint, wax, oil, grease, residual adhesive, mold, mildew, and other foreign materials that might prevent adhesive bond

SUBSTRATE PREPARATION

All substrates must be properly prepared and tested according to the following guidelines. Areas to receive flooring shall be permanently dry, clean, smooth, level and structurally sound. They shall be free of all contaminants, including but not limited to dust, solvents, paint, wax, oil, grease, residual adhesive, adhesive removers, curing, sealing, hardening, parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and any foreign material that might prevent a proper adhesive bond.

1. Concrete Subfloors

- a. Shall be in accordance with the most current version of ASTM F710 – Standard Practice for Preparing Concrete to receive Resilient Flooring.
- b. All patching and leveling is to be in accordance with the most current version of ASTM F2678 – Standard Practice for Preparing Underlayment’s, Thick Poured Gypsum Concrete Underlayment’s, Thick Poured Lightweight Cellular Concrete Underlayment’s and Concrete Subfloors with Underlayment Patching Compounds to receive Resilient Flooring.
- c. Concrete slab construction shall be in accordance with industry standards for specification related to concrete mix design, curing methods and drying times to prevent moisture problems.
- d. **On-grade and below-grade slabs should be installed with a suitable vapor retarder directly underneath the concrete slab when using Mosaic 95.**
- e. New concrete shall be properly cured and dried prior to the installation of floor covering. Curing agents, surface hardeners and other membranes or compounds shall be mechanically removed immediately after initial cure to allow the slab to properly dry before installation. Approximately 30 days per 1” of slab thickness.
- f. All concrete substrates, regardless of grade or age of slab, must be properly tested using one of the methods outlined below for warranty to apply. Acceptable test method is the ASTM F 2170 In Situ Relative Humidity. Testing shall be conducted according to the instructions of the manufacturer of the testing equipment.

ASTM F 2170 In-Situ Relative Humidity Test

- i. Prior to conducting ASTM F 2170 in-situ testing, a preliminary evaluation of comparative moisture conditions of concrete, gypsum cement, and other flooring should be conducted using a non-destructive Electronic Moisture Meter. This will assist in determining areas that must then be tested per ASTM F 2170.
- ii. Testing should only be done when the test site is at the same temperature and humidity expected during normal use; or at a temperature of 65° - 80°F (18° - 26° C) and 45% - 50% humidity for minimum 48 hours prior to testing.
- iii. A minimum of 3 test holes for the first 1,000ft² (100 M²) and one additional test hole for each 1,000ft² (100 M²) thereafter.
- iv. Test holes are to be drilled at a depth of 40% of slab thickness (one-side drying) or 20% of slab thickness (two sides drying).
- v. Test holes should be allowed to acclimate for 72 hours prior to insertion of the test probe. Reusable probes should equilibrate at least 1 hour prior to use in the next test area.

Concrete Alkalinity / pH Test

- i. Testing should only be done when the test site is at the same temperature and humidity expected during normal use; or at a temperature of 65° - 80°F (18° - 26° C) and 45% - 50% humidity for minimum 48 hours prior to testing.
- ii. Using distilled water, place drops of water to form a small puddle approximately 1" in diameter.
- iii. Wait 60 seconds, then dip a portion of the pH paper into the water.

Concrete Slab Preparation

- i. Concrete slabs shall be clean and smooth prior to installing floor coverings. Remove all sealers, curing agents and compounds, grease, oil, adhesive removers, old adhesive residue, dirt, paint, etc. to ensure a clean bond surface for the adhesives.
- ii. Concrete floors shall be smooth and level to prevent irregularities, roughness, or other defects from telegraphing through the new resilient flooring. The surface of the slab shall be flat to within $\leq 1/8"$ over 6-foot and $\leq 3/32"$ over 1-foot in all directions.
- iii. Uneven areas should be mechanically ground to smoothness.
- iv. Cracks, depressions, or other similar irregularities should be leveled using a suitable high moisture resistant Portland cement-based patching compound. Follow the patch manufacturer's instructions regarding mixing and applications.
- v. Overly porous, dusty, flaky, or soft concrete surfaces are not suitable for resilient floor coverings. It may be necessary to mechanically remove the top layer concrete in such cases and/or these surfaces may need to be primed and covered with a high moisture resistant cement-based underlayment compound. Follow the patching or leveling compound manufacturer's instructions regarding preparation of the concrete surface, priming, mixing of the product, thickness of application and drying time for resilient floor covering installation.
- vi. Expansion joints, isolation joints, control joints or other moving joints in the concrete slab shall not be filled with patching compound or covered with resilient flooring.

2. Gypsum and Lightweight Cellular Concrete Substrates

Gypsum and lightweight concrete subfloors and substrates should be primed in accordance with the listed standard. Unprimed gypsum surfaces may have a dusty, very open, porous surface, which will lead to an adhesion bond failure if not properly sealed and treated. It is the responsibility of the installation contractor to obtain verification from the GC, architect, owner, or party responsible for the site that the gypsum was properly sealed with the gypsum manufacturer's recommended sealer. If this data is not available, conduct testing according to ASTM F2419.

- a. Gypsum surfaces shall be in accordance with and properly prepared according to ASTM F2419 (Standard Practice for Installation of Thick Poured Gypsum Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring.)
- b. All patching and levelling are to be in accordance with ASTM F2678 (latest version), Standard Practice for Preparing Panel Underlayment's, Thick Poured Gypsum Concrete Underlayment's and Concrete Subfloors with Underlayment Patching Compound to Receive Resilient Flooring Compounds.
- c. Conduct a surface porosity test to ensure that the surface is properly sealed. If the water is quickly absorbed, stop the installation and contact Milliken Technical Services.

3. Wood Subfloors

- a. A combination of wood subfloor and panel underlayment construction shall be a minimum of 1" in total thickness.
- b. There shall be at least 18" of well-ventilated air space beneath all wood subfloors. Crawl spaces shall be insulated and protected by a suitable vapor barrier.
- c. Wood subfloors installed directly on concrete or over "sleeper" joist systems are not acceptable for use under Milliken FlexForm Sound 5.0mm LVT.
- d. Panels designed as suitable underlayment shall be at a minimum:

- i. Minimum ¼" in thickness
 - ii. Dimensionally stable
 - iii. Fully sanded face to eliminate grain texture or show through.
 - iv. Have a written manufacturer's warranty and installation instructions
 - v. Be free of substances such as ink, fillers and resins which may lead to staining of the resilient flooring
 - vi. Have all knots, voids and defects properly plugged and sanded
- e. Panels shall be installed according to manufacturer's instructions regarding stapling pattern, sanding and filling of joints, and acclimation to installed environment.
- f. Milliken will not cover or accept responsibility for the following:
- i. Joint telegraphing, either as a "ridge" or "valley"
 - ii. Grain or texture telegraphing
 - iii. Discoloration of finished flooring due to materials used for filling of voids and defects in the face of the underlayment
 - iv. Use of Luan Plywood underlayment
- g. Unacceptable substrates shall be covered using a ¼" or thicker panel underlayment recommended for commercial use. Consult underlayment manufacturer for:
- i. Recommended uses of product
 - ii. Warranty coverage
 - iii. Joint spacing
 - iv. Nailing or stapling pattern
 - v. Seam treatment
- h. Suitable underlayment panels include Artic (Baltic) Birch, A/C grade plywood with sanded face, or other underlayment grade exterior plywood.

4. Existing Resilient Flooring

When installing Milliken LVT over existing resilient floors, the existing flooring must be:

- i. Single Layer only.
- ii. Thoroughly stripped of all wax, floor finish, dirt and other contaminants that may affect adhesive bond
- iii. Be firmly bonded to the substrate
- iv. Flat and smooth with no curling edges or loose seams
- v. Dry and free from excessive moisture. All concrete floors shall be tested for moisture regardless of age or grade level. Do not assume that an existing floor is free of moisture related issues. Conduct testing per Section 1.d above.
- vi. Must not be of a cushion back, floating, or perimeter bonded floor
- vii. Embossed surfaces may require use of appropriate embossing leveler to not telegraph.

Milliken is not responsible for problems leading to or from indentations, telegraphing of old floor or adhesion release of old floor after the Milliken LVT is installed.

5. Old Adhesives

- a. Adhesive residue shall be properly removed prior to the installation of Milliken FlexForm Sound 5.0mm LVT. It is recommended that mechanical scraping or grinding be used as a primary means of removing old adhesive residue to a stain
- b. Residues include, but are not limited to carpet, vinyl, VCT, and or wood flooring adhesives.
- c. Black cutback/asphalt adhesives shall be scraped by hand to remove any loose patches, trowel ridges and puddles so that only a thin residue layer remains. This layer shall then be properly covered using a Portland based patching compound properly mixed with the manufacturer's recommended latex/acrylic additive.
- d. If chemical/liquid adhesive removers are utilized, the manufacturer's recommended instructions for cleaning after use of the remover shall be followed fully. Milliken is not responsible for any adhesive failures, indentation, bubbling, or delamination of new flooring due to improper cleaning of residue left from liquid adhesive removers. Milliken highly recommends mechanical removal of adhesives. If your slab has been chemically abated, contact Milliken Technical for recommendations.

6. Other substrates

- a. Cement terrazzo and metal floors may be suitable for installation and need to be properly prepared for adhesion. Most will need to be prepared with a suitable, moisture-resistant, Portland-based cement patching compound, see manufacturer's recommendations for use and preparation of subfloor.
- b. Ceramic, porcelain, marble, and granite tiles are suitable as substrates when the following conditions are met:

- i. Tiles must be properly bonded with intact grout joints and free of cracks.
 - ii. Surface of tile and grout joints should be free from sealers, coatings, dirt and contaminants.
 - iii. Properly prepare the surface of tiles by grinding any high areas and using a suitable Portland based leveling compound and primer to fill in all low areas. Follow leveling compound manufacturer's recommendations for surface preparation and application of product.
- c. The following are **not suitable substrates** for installation of Milliken FlexForm Sound 5.0mm LVT: ***Rubber, cork, or asphalt tiles; epoxy terrazzo flooring; stained or painted concrete and any other material covered in the sections above and listed as unsuitable.*** Unsuitable substrates should be covered with an approved ¼" wood underlayment or suitable Portland-based cement leveler or patching compound. Always follow the manufacturer's recommended practices when covering an existing substrate.

WARNING!

DO NOT SAND, DRY SWEEP, BEAD BLAST, SHOT BLAST OR USE ANY OTHER MECHANICAL MEANS TO PULVERIZE EXISTING TILE FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT-BACK" OR ANY OTHER ADHESIVES. THESE PRODUCTS MAY CONTAIN ASBESTOS FIBERS AND/OR CRYSTALLINE SILICA. AVOID CREATING DUST. INHALATION OF SUCH DUST IS A CANCER AND RESPIRATORY TRACT HAZARD. SMOKING BY INDIVIDUALS EXPOSED TO ASBESTOS FIBERS GREATLY INCREASES THE RISK OF SERIOUS BODILY HARM. UNLESS POSITIVELY CERTAIN THAT THE PRODUCT IS A NON-ASBESTOS CONTAINING MATERIAL, YOU MUST PRESUME IT CONTAINS ASBESTOS. REGULATIONS MAY REQUIRE THAT THE MATERIAL BE TESTED TO DETERMINE ASBESTOS CONTENT.

INSTALLING MILLIKEN FLEXFORM SOUND 5.0mm LUXURY VINYL PLANK

1. General

- a. When using more than one carton, ensure that the cartons are all the same run / lot number. Different lots may have a variation in color, texture, or gloss so they should not be mixed in the same room. **Contact your Milliken representative before installing product from differing runs or lots.**
- b. Milliken plank simulates wood planks and can be installed in the same pattern as a wood plank floor in a random pattern, staggered design, diagonally or other design.
- c. Planks are best in appearance when lying parallel to the longest walls in the room.
- d. Milliken FlexForm Sound 5.0mm LVT flooring can be cut using a tile cutter or a utility knife. Keep knife blades sharp for easy, accurate and safe cuts. Fit planks to walls, columns, door jambs, etc. using the same methods as with other floor tiles; overlap, pattern scribe, wall scribe and free hand.
- e. When working on top of FlexForm Sound 5.0mm LVT during the installation, be sure to not disturb tiles and planks that have already been laid. If a piece does become dislodged, peel it up and reinstall.

2. Adhesive selection

Milliken requires full-spread coverage of adhesive in all areas of installation. Adhesives used with this product must be approved by Milliken. ***Use of non-Milliken adhesives or non-Milliken recommended adhesive does not affect FlexForm Sound LVT product warranties, but any claim related to adhesive performance or workmanship and any damage caused by this would be the total responsibility of the party responsible for using the non-recommended product.***

- a. **The Flexform Sound product is not suitable for subfloors with a RH moisture ≥95%.** Please contact Milliken Technical Support at 1-800-528-8453 – Option #2 for recommendations of alternative Milliken LVT products that can be used with high moisture.
- b. **For subfloors with a RH moisture <95%, a full-spread, SEMI-WET installation OR a full-spread WET installation with Milliken Mosaic 95 adhesive is required.** The installer can work "on-the-product" with SEMI-WET method or "off-the-product" with WET method.
 - i. For semi-wet installation, the adhesive is troweled onto the floor and partially dried where the thinner "valleys" of the troweled adhesive start to dry clear, but the "ridges" are still wet and cloudy. It is essential that the adhesive sticks to both the backing of the tile and to the subfloor.
 - 1. Trowel Application: 1/16" x 1/16" x 1/32" U notch
 - 2. Spread rate 185 - 245 sq. ft per gallon (trowel)
- c. **DRY-LAY, PSA type application is not permitted, and any claim related to adhesive performance, workmanship, or damage caused by this would be the total responsibility of the party responsible for installation.**

3. Layout

- Determine the center of the room and dry lay a section of tile/plank from the center line to one wall to determine that the pattern is centered and fit. Measure the border cuts along the wall and compare to the following criteria. If necessary, adjust the first row at the centerline to meet either the plank or tile
- Planks should never be less than 9 inches long or less than half of the width of the plank. Avoid small pieces in border areas and adjust the center lines to achieve the proper pattern.
- Expansion gaps of ¼ inch are required at every vertical surface (walls, built-in furniture, columns, etc.).**

4. Installation of flooring with Mosaic 95 Adhesive

- Before spreading adhesive, strike a parallel chalk line to the centerline of the length of the room approximately 2' to 3' from the wall. Actual position is to be determined by the layout of the planks, ensure that the pattern is followed from your initial starting point determined in the dry layout performed earlier. If necessary, re-lay part of the pattern from centerline starting point to determine the exact measurement of the parallel line.
- After determining the starting point, apply adhesive, allowing for the SEMI-WET open time. Do not apply too large of area. Allow the adhesive to start drying partially, where the "valleys" of the troweled adhesive are dry, but the "ridges" are still wet.
- Begin installing the first row of flooring into the adhesive, **keeping an 1/4" gap along all vertical surfaces**. FlexForm Sound 5.0mm LVT tile/planks must be installed 'tightly' to themselves. Once your starter rows are secure and the flooring planks/tiles are tightly butted together, continue installing the next rows.
- Start installing the next rows by continuing the pattern and tightly butting all joints together. A scrap piece of flooring can be used to lightly tap the pieces into the previous row.
- Continue in this manner spreading only enough adhesive that can be safely installed within the SEMI-WET working time of the adhesive. **BE SURE TO KEEP IT SEMI-WET.**
- Periodically lift flooring material to verify proper transfer of the semi-wet adhesive to the tile.**
- Be sure to stagger all end joints by at least 9" or the width of one plank. Vary the length of your planks during installation to ensure that end joints are not bunched, and a randomness is achieved in the pattern.
- During installation, roll all the areas of the floor with a 3-section 75-100 lb. roller to ensure proper transference of adhesive to the plank backing. This is critical to assure good adhesive bond.
- Summary: ([https://floors.milliken.com/docs/default-source/americas-documents/technical-documents/site-related-solutions/spec-sheets/mixed-install-\(carpet-5mm-lvt\)---mosaic-95.pdf?sfvrsn=664071cb_2](https://floors.milliken.com/docs/default-source/americas-documents/technical-documents/site-related-solutions/spec-sheets/mixed-install-(carpet-5mm-lvt)---mosaic-95.pdf?sfvrsn=664071cb_2)).

PRODUCT CHARACTERISTICS		
	Product Classification	Pressure Sensitive Adhesive
	Appearance	White to clear as adhesive dries
	Consistency	Smooth, low viscosity liquid
	Application	Trowel
	Flammability	Non-flammable
	Freeze/Thaw	Stable to 10°F (-12°C)
	Shelf Life	2 year
PREPARATION		
	Testing	RH: <95% required; pH: 5-11
	Vapor Barrier Requirement	ASTM E-1745 Class B minimum vapor barrier in place in accordance with ACI 302-2001 and directly in contact with the concrete placement
	Surface preparation	Any existing old adhesive must be removed to a stain
	Environment	Acclimatized to service conditions
TIME		
	Open/Flash Time	0 - 10 min for WET to SEMI-WET Set condition
	Working Time	5 - 15 min for WET to SEMI-WET Set condition
	Cure Time	12 hours
	Pot Life	N/A
TRAFFIC		
	Light Traffic	12 hrs

	Heavy Traffic	72 hrs
	Heavy Rolling Loads	72 hrs

5. Proper Installation of Bathrooms

- Remove toilet; prepare sub-floor properly.
- Apply adhesive as above.
- Apply LVT.
- Re-install toilet.
- Use flexible caulk in bathrooms around toilet, tub/shower, and wall base of room; A recommended vendor for color-matched caulk for sealing expansion gaps, bathroom perimeters, tub/shower, toilet gaps, etc. is Color-Rite Inc.: <https://colorriteinc.com/color-rite/>.

6. After Installation

- Be sure planks are set, flat, and have tight edges. Re-roll the entire installation, along the length and width of the planks with a 3-section 100 lb. roller to ensure all tiles are properly set into the adhesive. If necessary, weigh down any loose planks overnight to ensure bond.
- Clean adhesive residue from the face of the flooring following these directions:
 - a. Milliken Mosaic 95 adhesive residue on the surface of the planks can be cleaned with warm, soapy water. Do not use excess water as this can seep between the seams of planks and lead to an adhesion failure!
 - b. Dry adhesive residue can be cleaned with mineral spirits or denatured alcohol and a clean cloth in a sparingly manner. Carefully follow the directions on the mineral spirits container. Please note that improper use of any chemical can harm the finish of the LVT.
 - c. Do not pour soapy water, mineral spirits, or denatured alcohol directly on the LVT.
 - d. If working with epoxy or urethane adhesives from other vendors, you must clean these up while wet according to the adhesive manufacturer's instructions, which can be generally found on the container label.
 - e. Proper rolling of floors during and after installation is a must on Luxury Vinyl products. Use a 3 section, 75-100-pound roller to set flooring into the adhesives.
 - f. If Milliken FlexForm Sound 5.0mm LVT is not the last portion of the construction project, the floor must be protected from construction traffic and damage. Wait 24 hours and utilize a reinforced fiber protective board or a heavy Kraft paper (min. 60 lbs.) and cover the floor. Failure to wait 24 hours before covering can impact adhesive curing.

MILLIKEN ADHESIVES

Milliken adhesives are engineered to be used on a variety of interior installations including most concrete, wood and other approved substrates that are properly prepared. Use of non-Milliken adhesives or non-Milliken recommended adhesive does not affect Milliken LVT product warranties, however, any claim related to adhesive performance or workmanship and any damage caused by this would be the total responsibility of the party responsible for using the non-recommended product. Milliken LVT adhesives are specially formulated to give superior performance with Milliken LVT products.

NOTE: THE ABOVE INSTALLATION INSTRUCTIONS ARE GENERAL IN NATURE AND ARE NOT COMPLETE FOR EVERY MILLIKEN LVT PATTERN. SOME MILLIKEN PATTERNS REQUIRE SPECIFIC INSTALLATION METHODS TO ACHIEVE THE DESIRED APPEARANCE. ALWAYS CONSULT YOUR MILLIKEN REPRESENTATIVE OR TECHNICAL SERVICES IF THERE ARE QUESTIONS ABOUT THE CORRECT INSTALLATION METHOD. PLEASE SEE WWW.MILLIKENCARPET.COM FOR THE LATEST INSTALLATION INFORMATION.

This information is supplied by Milliken & Company

300 Lukken Industrial Drive West, LaGrange, Georgia 30240

Call Technical Services Team Toll Free 1-800-528-8453 - Select Option #2

The above instructions represent the best available data and are deemed to be correct and complete; however, Milliken assumes no liability for installation-related problems.

1/2022