HYBRID*FORM*™ 3MM 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 https://www.milliken.com/en-us/flooring/knowledge-center/guides-and-warranties 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 Hybrid*FORM*™ has been installed.

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

HIGHLIGHTS FOR THE HYBRID*FORM*™ PLANK PRODUCTS

Essential recommendations for furniture glides, caster chair wheels, and protective measures are found on pg. 6, "Post Installation Protection".

i To prevent installation problems, 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.

ii The subfloor must be smooth, level, and structurally sound to prevent undesirable vertical or lateral movement of the flooring product. The surface of the subfloor shall be flat and smooth to <1/8-inch gap (3.2mm) within 6 feet (1.8m) in all directions (2 x US quarters should not slide underneath), and <1/16-inch gap (1.6mm) within 1 foot (25.4 mm) (1 x US quarter should not slide underneath).

   a. Cracks, depressions, or other irregularities should be leveled using a high moisture resistant, non-shrinking, Portland cement-based, patching compound.

   b. Uneven and high areas should be mechanically ground to levelness and smoothness.

iii **FOR PERMANENT INSTALLATION for subfloors with an RH moisture ≤95% (majority of applications), a full-spread, dry-lay, pressure sensitive installation** using Milliken Mosaic 95TM adhesive is required. The installer can work "on-the-product".

   a. Trowel Application: 1/16" W x 1/16" D x 1/32" S, U-notch.

   b. Dry-lay: Dry/flash time = 30 minutes or until dry depending upon room temp. and humidity; working time = 8 hours.

   c. Approximate adhesive coverage rate: 185-245 ft2/gallon.

iv **FOR PERMANENT INSTALLATION for subfloors with an RH moisture >95%**, moisture mitigation is required. Contact Milliken Technical Services at 1-800-528-8453.

v A bond test is required with photo documentation. For procedure, see pg. 6 of these instructions.

vi Hybrid*FORM*™ should be installed with a random stagger pattern with minimum head joint spacing of 8". Herringbone is NOT allowed.

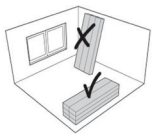
vii Measure the border cuts along the wall. Planks should never be cut less than 6 inches long or cut less than 6 inches wide. Avoid small pieces in border areas and adjust the center lines to achieve the proper pattern.

viii Hybrid*FORM*™ Flooring tiles must be installed 'tightly' to themselves. To fit planks or tiles to walls, columns, door jambs, etc., use the same methods as used with other flooring products: overlap, pattern scribe, wall scribe, and freehand.

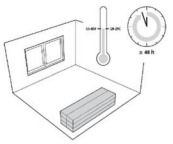
ix Within 1 hour after the installation, the installed flooring must be rolled with a 3 section 100-pound roller to properly engage the adhesives and "set" the planks.

PRODUCT HANDLING and SITE CONDITIONS

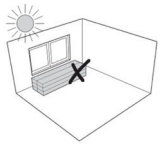
1. Never install Hybrid*FORM*™ flooring products outdoors.
2. Check batch and product details and quantity are correct and match purchase order.
3. Inspect your shipment of Milliken flooring to ensure that all cartons are of the same lot/manufacturing run.
4. Store cartons of tile and/or plank with cartons stacked one on top of the other. Do not store on end or sides or allow cartons to bend during storage or transportation.



5. Store in dry indoors condition between 40° Fahrenheit - 90° Fahrenheit (4° to 32° Celsius).
6. 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 60° to 80° Fahrenheit (16° to 27° 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.



7. 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 60° to 80° Fahrenheit (16° to 27° 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.
8. Milliken flooring 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.



9. 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.
10. To minimize shade variation during installation of Milliken flooring, mix and install planks from several different cartons. Do not mix different batches.
11. 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.

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APPROVED SUB-FLOOR SUBSTRATES

All substrates' surfaces shall be flat and smooth to <1/8-inch gap (3.2mm) within 6 feet (1.8m) in all directions (2 x US quarters should not slide underneath), and <1/16-inch gap (1.6mm) within 1 foot (25.4 mm) (1 x US quarter should not slide underneath). The F-number system value shall be FF32. Use mechanical grinding/sanding and suitable moisture resistant Portland cement-based patching and leveling compounds to meet specifications. For more detailed instructions for substrate preparation, see subsequent section, "Substrate Preparation".

- Above-grade, on-grade, or below-grade concrete without hydrostatic pressure, excess moisture, or alkalinity. Must be fully cured and dry, free from curing compounds, sealers etc.
- Above-grade or on-grade lightweight concrete without hydrostatic pressure, excess moisture, or alkalinity. The concrete must be fully cured, dry, and free from curing compounds, sealers, etc. that can weaken the strength of the adhesive bond. Below-grade lightweight concrete is not allowed.
- Above-grade or on-grade Gypsum concrete without hydrostatic pressure, excess moisture, or alkalinity. The concrete must be fully cured, dry, and free from curing compounds, the surface must be sealed with the gypsum manufacturer's recommended sealer. See details below. Below grade gypsum concrete is not allowed.
- Radiant heated floors where heat does not exceed 85oF (29oC).
- Properly prepared and well bonded existing resilient floor covering.
- Cement Terrazzo, ceramic tile, marble – see adhesive for proper preparation.
- Certain metal floors – Please contact Milliken Technical Support for assistance. 1-800-528-8453 – Select Option #2
- 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 Hybrid*FORM*™ flooring product:

- Underlayment including Milliken underlayment.
- Raised access flooring.
- 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 Hybrid*FORM*™ flooring product 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
- Masonite™ or other hardboard underlayment
- Hardwood flooring
- Uneven or unstable substrates
- Paint, wax, oil, grease, residual adhesive, mold, mildew, and other foreign materials that might prevent adhesive bond

Unsuitable substrates should be covered with an approved 1/4-inch wood underlayment or suitable Portland-based cement leveler/patching compound. Always follow the manufacturer's recommended practices when covering an existing substrate.

SUB-FLOOR SUBSTRATE PREPARATION

All substrates must be properly prepared and tested according to the following guidelines:

1. CONCRETE SUBFLOORS

a. Shall be in accordance with the most current version of ACI 302 and ASTM F710 – Standard Practice for Preparing Concrete to Receive Resilient Flooring, available from www.astm.org.

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.
When using Milliken Mosaic 95TM, on-grade and below-grade slabs should be installed with a suitable vapor retarder directly underneath the concrete slab.

d. 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.

e. 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. Testing should only be done when the test site is at the same temperature and humidity expected during normal use.
ii. 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.
iii. 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).
iv. 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.

Concrete Slab Preparation *(continued)*

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 subfloor shall be flat and smooth to <1/8-inch gap (3.2mm) within 6 feet (1.8m) in all directions (2 x US quarters should not slide underneath), and <1/16-inch gap (1.6mm) within 1 foot (25.4 mm) (1 x US quarter should not slide underneath). The F-number system value shall be FF32.

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. Have a minimum compressive strength of 2000 PSI when installed over a wood substrate or 3000 PSI when installed over a concrete substrate.

c. 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

d. 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. Wood subfloors must be structurally sound, meet ASTM F 1482 standards, and comply with local building codes.

b. A combination of wood subfloor and panel underlayment construction shall be a minimum of 1" in total thickness.

c. The surface of the subfloor shall be flat and smooth to <1/8-inch gap (3.2mm) within 6 feet (1.8m) in all directions (2 x US quarters should not slide underneath), and <1/16-inch gap (1.6mm) within 1 foot (25.4 mm) (1 x US quarter should not slide underneath). The F-number system value shall be FF32.

d. 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.

e. Wood subfloors installed directly on concrete or over "sleeper" joist systems are not acceptable.

f. Panels designed as suitable underlayment shall be at a minimum:
   i. Minimum 1/4-inch 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

g. Panels shall be installed according to manufacturer's instructions regarding stapling pattern, sanding, and filling of joints, and acclimation to installed environment.

h. 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
   i. Unacceptable substrates shall be covered using a 1/4-inch or thicker panel underlayment recommended for commercial use. Consult underlayment manufacturer for:
      i. Recommended uses of products
      ii. Warranty coverage
      iii. Joint spacing
      iv. Nailing or stapling pattern
      v. Seam treatment

j. Suitable underlayment panels include Arctic (Baltic) Birch, A/C grade plywood with sanded face, or other underlayment grade exterior plywood.

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Milliken

4. EXISTING RESILIENT FLOORING

When installing new Milliken flooring over existing resilient floors, the existing resilient 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 RH moisture testing as described 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 Hybrid*FORM*™ flooring is installed.

5. OLD ADHESIVES

a. Adhesive residue shall be properly removed prior to the installation of Milliken flooring product. 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 should be tested for asbestos before removal. If asbestos-free, the surface should be scraped by hand to remove any loose patches, trowel ridges and puddles so that only a thin residue layer remains. This layer should be properly covered using a moisture-resistant Portland based patching compound.
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.
e. Radiant Heated Subfloors
1. The radiant coils must not be in direct contact with the Milliken flooring. There must be ≥ 1/2-inch (13mm) separation between the planks/tiles and the heating coils.
2. The temperature of the subfloor and Milliken flooring must not exceed 85oF (29oC) during operation. Use of an in-floor temperature sensor is required to avoid overheating.
3. Room and Floor Temperature Conditioning Options
a. The system must be off 48 hours prior to and after installation to allow floor temperature to stabilize at 65-70ºF (21ºC), ambient, room temperature. OR
b. Ensure the floor temperature of the radiant heat is no higher than 70ºF (21ºC) for 8 hours prior to installation, during the entire installation, and for 48 hours after the installation.
4. Full spread coverage of adhesive is required.
5. When ready to start the radiant heat for the first time after installation, limit the temperature increase to 5ºF (2.5ºC) every 6 hours until desired operating temperature is obtained. (The final floor temperature must be less than 85ºF (29ºC) as said above). This will minimize thermal shock and potential bond failure causing unwanted buckling and gapping of the planks/tiles.

6. OTHER SUBFLOORS

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.

WARNING!

DO NOT SAND, 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 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.

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TEST FLOOR READINESS WITH A BOND TEST BEFORE INSTALLATION

A bond test is a mock-up installation done prior to the full installation of the Hybrid tile to indicate whether the adhesive will bond satisfactorily to the substrate and floor covering. Bond testing will aid in identifying both the working characteristics of the adhesive, such as the appropriate open and working time for the site conditions, and any potential bonding problems to the substrate.

BOND TEST PROCEDURE:

1. Select an approximately 6′ x 6′ area (approx. 4. square meters) in a typical location on the substrate or slab. The floor should be prepped and consistent with the installation plan
2. Milliken Hybrid*FORM*™ Flooring tile adhesive (Mosaic 95) must be applied to the substrate for a releasable installation in the recommended manner (trowel) and application rate. The adhesive must be allowed to dry completely prior to installation of Hybrid*FORM*™ flooring tiles.
3. Observe the adhesive drying time, which will vary with the floor porosity and ambient conditions. Properly dried adhesive will not transfer to the finger and will have a tacky feel.
4. After placing the Hybrid*FORM*™ flooring tile on the dried adhesive apply downward pressure to assure contact with the substrate. Tiles should be immediately locked in place inhibiting lateral movement.
5. After 24 hours, Hybrid*FORM*™ should be adequately bonded to the substrate without lateral movement. The adhesive should be firmly bonded to the substrate. To test this attempt to slide each tile. Now lift each Hybrid*FORM*™ and check the backing for adhesive transfer. All of the adhesive should remain on the floor. There should be no adhesive transfer to the back of the tile.
6. Document with photos that show floor prep, floor with adhesive, and back of tile upon tile removal after 24hr period.

INSTALLING MILLIKEN HYBRID*FORM*™ FLOORING

1. General

a. Layout: 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 products from differing runs or lots.

b. Layout: Planks are best in appearance when lying parallel to the longest walls in the room.

c. Layout: Hybrid*FORM*™ flooring product should be installed with a random stagger pattern with minimum head joint spacing of 8″. Herringbone is NOT allowed. If you have any questions, consult your local Milliken sales representative or Milliken Technical Services (1-800-528-8453 Option 3) prior to installation.

d. Cutting: Milliken Hybrid*FORM*™ flooring can be cut with a utility knife. Keep knife blades sharp for easy, accurate, and safe cuts.

- To fit planks or tiles to walls, columns, door jambs, etc., use the same methods as used with other flooring products: overlap, pattern scribe, wall scribe, and freehand.

2. Adhesive selection

a Milliken requires full-spread, trowel applied, coverage of adhesive in all areas.

b FOR PERMANENT INSTALLATION for subfloors with an RH moisture ≤95% (majority of applications), a full-spread, dry-lay, pressure sensitive installation using Milliken Mosaic 95TM adhesive is required. The installer can work “on-the-product”.

- Trowel Application: 1/16" W x 1/16" D x 1/32" S, U-notch.
- Dry-lay: Dry/flash time = 30 minutes or until dry depending upon room temp. and humidity; working time = 8 hours.
- Approximate adhesive coverage rate: 185-245 ft2/gallon.

c FOR PERMANENT INSTALLATION for subfloors with an RH moisture >95%, moisture mitigation is required. Contact Milliken Technical Services at 1-800-528-8453.

d All installed flooring must be rolled with a 3 section 100-pound roller to properly engage the adhesives and “set” the plank/tile.

Adhesives used with this product must be approved by Milliken. Use of non-Milliken adhesives or non-Milliken recommended adhesive does not affect Hybrid*FORM*™ 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.

3. Layout

a. Hybrid*FORM*™ flooring product should be installed with a random stagger pattern with minimum head joint spacing of 8″.

b. Before applying adhesive, determine the center of the room and lay a section of tile/plank from the center line to one wall to determine that the pattern is centered and fit. If necessary, adjust the first row at the centerline to properly fit the room.

c. Measure the border cuts along the wall. Planks should never be cut less than 6 inches long or cut less than 6 inches wide. Avoid small pieces in border areas and adjust the center lines to achieve the proper pattern.

d. Once fit, strike a parallel chalk line to the centerline of the length of the room approximately 2′ to 3′ from the wall. (The actual position is to be determined by the layout of the planks, based upon your initial centering and fitting work.) The centerline and parallel second line help keep the installation square and straight.

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4. Installation with Milliken Mosaic 95 Adhesive: Dry-Lay Method

a. After determining the starting point, apply adhesive using the proper notched trowel, keeping in mind the open time for the adhesive. Allow the adhesive to tack up.

b. Begin installing the first row of flooring into the adhesive. Hybrid*FORM*™ Flooring tiles 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.

i. Optional aid for installation: A small, 1-2" diameter, hand-held seam roller is a useful tool for aiding the butting of the plank edges tightly together. This tool is commonly available at most flooring and hardware stores.

1. Lay plank while guiding seams together with free hand
2. Rub plank in place with hands, pushing air out from under the plank
3. Quick roll new seams with hand roller
4. Proceed to next tile…

c. Start installing the next rows by tightly butting all joints together.

d. Continuing in this manner, spreading only enough adhesive that can be installed within the working time of the adhesive.

e. To fit planks to walls, columns, door jambs, etc., use the same methods as used with other flooring products: overlap, pattern scribe, wall scribe, and freehand.

f. During installation, periodically roll areas of the applied flooring with a 3-section 100 lb. roller to ensure proper bonding of the adhesive to the backing of the flooring.

5. 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.
- Clean adhesive residue from the face of the flooring following these directions:
  a. Milliken Mosaic 95 adhesive residue can be cleaned with a clean, white cloth dampened with water or denatured alcohol. USE ALCOHOL IN A SPARINGLY MANNER. The improper use of any chemical can harm the Hybrid*FORM*™ product.
  b. Do not pour water or denatured alcohol directly on the Hybrid*FORM*™ product.
  c. If Milliken Hybrid*FORM*™ flooring is not the last portion of the construction project, the floor must be protected from construction traffic and damage with a reinforced fiber protective board or a heavy Kraft paper (min. 60 lbs.).

POST INSTALLATION PROTECTION HYBRID*FORM*™ FLOORING

This section outlines essential recommendations for furniture glides and other protective measures, highlighting both preferred practices and items to avoid.

PREFERRED:

- Use flat protective glides for furniture, at least 1.5" - 2" in diameter, made of soft materials like felt, silicone, or poly-based materials.
- Choose larger/wider glides for heavier furniture to disperse weight effectively.
- Replace small, narrow, or dome-shaped glides with flat glides for full surface contact.
- Employ felt pads for frequently moved furniture and clean them periodically.
- Inspect and replace damaged chair/table leg glides and ensure rust-proof metal protectors.
- Use soft, W-Type polyurethane wheels for rolling chairs and check for any broken or nonrotating wheels.
- Use protective boards (1/2" thick) or appropriate furniture movers when relocating heavy items.
- Protect floors from direct sunlight with appropriate window coverings.
- Conduct an audit of existing furniture glides during flooring renovations to identify potential issues.

AVOID:

- Using narrow chair glides for heavy furniture.
- Retaining small, narrow, or dome-shaped glides.
- Using nylon or hard plastic wheels, glides, or casters.
- Allowing damaged or non-functional wheels on furniture.
- Dragging heavy furniture, appliances, or fixtures directly across the floor.
- Utilizing metal or razor scrapers on the surface

REPLACEMENT OF DAMAGED HYBRID*FORM*™ FLOORING

While Hybrid*FORM*™ flooring is very durable, it can sometimes be damaged (e.g., dented by falling objects, scratched, or gouged by movement of heavy furniture, etc.). The replacement procedure is similar to carpet tile's replacement procedures.

a. Acclimate the new replacement Hybrid*FORM*™ plank 48 hours prior to replacement.
b. Carefully lift corner with a knife and peel the damaged plank from the floor.
c. Clean out any debris from the now open area.
d. Check that new tile fits properly in the new space. Adjust as needed.
e. If the existing adhesive is still well adhered to floor and tacky, refresh with a thin layer of adhesive in the open area.
f. If the existing adhesive is not well adhered, scrape it out with a razor-scraper to a stain. Reapply new adhesive to open area.
g. Place the replacement tile into place, applying pressure to surface of the new tile to ensure proper transfer of adhesive.
h. After 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 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. April 2026