



Adura® Luxury Floors Installation Guide

General Information

All of the general installation instructions stated in General Installation Guidelines regarding storage and job site conditions, including climatic and structural requirements, are applicable to Adura® Luxury Floors. Review and consider these requirements before proceeding with the installation.

These installation specifications are for all Fully Adhered installations of Mannington Adura® Luxury Floors. Recommendations are based on the most recent available information. All instructions and recommendations must be followed for a satisfactory installation.

- Adura® Luxury Floors must be stored and installed in climate-controlled interior locations where the temperature can be regulated to between 65° and 85° F.
- Install Adura® Floors only after the job site has been cleaned and cleared of other trade apparatus that may damage a finished installation.
- Before installation always, check the cartons to ensure the pattern number is correct. Work from several cartons to mix design elements. Do not “cluster” similar design elements.
- All subfloor/underlayment patching must be done with a non-shrinking water resistant Portland cement patching compound such as Mannington MVP-2023.
- Never install Mannington resilient product over residual asphalt-type (cut back) adhesive. It can bleed through the new floor covering. Residual asphalt-type adhesive must be thoroughly removed or covered with underlayment plywood or Mannington latex underlayment.
- Adura® Luxury Floors are to be adhered with Mannington MT-711. MT-711 is a solvent-free, acrylic-based pressure sensitive adhesive that is appropriate with Mannington resilient and carpet modular flooring products.
- Use only Adura® Luxury Grout when grouting is desired.

All precautions and requirements regarding subfloor selection and preparation found in the General Installation Information section apply to Adura® Luxury Flooring.

Installation

Tile Layout

As with all tile formats, Adura® tiles should be “balanced” in the work area. Tiles may be laid squarely in the work area or laid out diagonally in the work area. In either case, the room must be accurately measured to square off the area and to determine the center point of the area. The work area should be divided into quadrants designated by striking chalk lines. It is critical that the intersection of the chalk lines be square at 90°. All border tiles should be of nearly equal dimensions and at least one-half of a tile wide. Careful and precise measurements must be taken during tile layout. Lay all tiles in the same direction with all directional arrows pointing in the same direction.

Plank Layout

It is also important to balance the layout of the plank format. Proper planning and layout will prevent narrow plank widths at wall junctures. Determine layout to prevent having less than half a plank width (2") or very short length pieces. As with all plank products, lay the long dimension of the plank parallel to the long dimension of the work area. Accurately measure the room to determine the center line; adjust this established line to accommodate a balanced layout and then transpose this line to a comfortable width away from the starting wall (approximately 2' to 3' wide). Apply the adhesive in this area and begin installing planks.

Combinations – Tile and Plank Layout

The modularity of Adura® Luxury Flooring allows for interesting and decorative combinations of tile and planks. When determining proper layout for this custom installation, it is important to consider the dimensions of the modular “design unit” and then balance the design unit in the work area. Careful and precise measurements must be taken to ensure success with a combination design.

Adhesive Application

Mannington MT-711 adhesive is required for adhering Adura® to all approved substrates. Apply the adhesive with a 1/16" wide, 1/16" deep, and 1/16" apart notched trowel. The MT-711 adhesive should be given sufficient open time so that the trowel ridges appear “cloudy” or “hazy” and the trowel “valleys” are clear. The adhesive must be sufficiently tacky to prevent tile slippage during placement. Do not allow adhesive to tack up over night.

Tile Installation

After the MT-711 has had sufficient open time, begin laying the tile at the intersection of the working lines. Be certain this tile is installed squarely on the lines. After the first tile is in place, begin laying tiles outward along both guide lines. Press tiles firmly against adjoining tiles and press into the adhesive. Begin stair-stepping the tiles into the field area. Maintain the squareness of the installation by keeping tiles along guide lines. Lay all tiles in the same direction, all directional arrows pointing in the same direction.

Plank Installation

After the MT-711 adhesive has had sufficient open time, begin laying planks along the designated starting line. Planks ends should be staggered in a random manner so as to avoid clustering the end joints. Varying the length of the starting plank can assure sufficient stagger of end joints. End joints should be staggered by at least 4". Pay particular attention to the randomness of the plank layout; avoid establishing a repeating pattern. Continue installing the planks in a random fashion and complete each area before beginning the next. If required, use a kneeling board to avoid walking on freshly installed planks.

Cutting and Fitting Border Tiles and Planks

Adura® luxury floors can be cut with a large tile cutter or by using the score and snap technique. Direct or pattern scribe the tiles to fit into complicated, irregular walls or pipes, etc.

Grouting Adura® Tile

Certain Adura® Luxury Floor tile patterns and Homestead Collection tile patterns lend themselves to the design option of applying a specially produced acrylic grout between the tiles. Specific installation procedures must be followed when grouting Adura® tiles.

1. Required tools

- Hard-edge rubber grouting float
- Dense, square-edge sponge
- Nylon scrubbing pad
- Water buckets
- Plastic tile spacers



2. Procedure



The desired grout width must be determined before tile layout begins. It's critical to include grout width measurement to tile size to ensure a balanced layout. Grout width should be at least 1/16" wide and no more than 1/4" wide. Commercially available hard plastic ceramic tile spacers may be used to maintain equal grout joint width.



Tiles may be grouted immediately after installation. Insure that the tiles are firmly bonded to the subfloor by re-rolling the entire installation with a three-section 100 pound (or heavier) floor roller just prior to grouting. Be certain to clean any debris from grout joints.



Apply the acrylic grout in to the tile joints with the narrow edge of the rigid rubber float. Firmly pack each tile joint so as to leave no voids or skips. As each tile joint is grouted, remove excess grout from tile edges with the stiff edge of the float pulled in a 45° angle across each joint. Grout only in small increments and clean each section as you go. Never apply grout in an area greater than 20 square feet without stopping to clean.

Only Mannington acrylic grout may be used with Adura® Luxury tiles. This pre-mixed grout has been developed to bond to Luxury vinyl tiles and is flexible and durable. **Never use cement-based, epoxy or furan grout.**



Use a dampened nylon scrubbing pad to loosen remaining grout from the tile surface. Wipe alongside the joint with the nylon pad to avoid removing grout from the joint. Do not use excessive water during cleanup.



Use the special square edge sponge to remove the excess water and grout haze. Be certain to wipe diagonally across tile joints to avoid dragging grout from the joint. Rinse the sponge frequently and change the cleanup water frequently. Thoroughly remove all residual grout and grout haze before leaving the job. Dried grout haze is difficult to remove.



If a slight grout haze is noticed after 24 hours, it can be removed by scrubbing with the nylon pad and a solution of 1/4 cup ammonia in a gallon of clean water. Thoroughly rinse the area with clean water. **Do not use chemical grout cleaners.**

If skips or voids in the grout joint are discovered after final cleanup, they can be filled by applying new grout directly over the old.

Finishing the Job

Adura® luxury floors must be rolled with a minimum 100-pound three-section floor roller immediately after installation. Before grouting, roll the flooring in both directions to firmly seat the tile into the adhesive.

Cover all exposed edges. Use wood molding or vinyl cove base along all walls, cabinet toe kicks, etc. Use transition strips in doorways or where new flooring joins another floor covering. Caulk along tubs, toilet bowls, etc.

Do not wash the floor for 48 hours after installation. After 48 hours, damp mop to remove residual surface dirt. Follow appropriate maintenance schedule for Adura® luxury floors.

Repairing Adura® Tile and Plank

Although the wear surface of Adura® plank and tile is durable, it is not bulletproof. Should an accident occur that damages the surface of the product, a simple repair procedure exists. The key to this process is having ample material available to replace the damaged area(s). This should be considered when placing the original order. Extra tiles and planks should be wrapped in their packaging and stored in an interior, climate-controlled location.

To remove a tile or plank, gently heat with a hot-air blower to allow the material to become more flexible. Insert a thin 2" wide putty knife in the seam and gently lift up. Be careful not to damage the surrounding flooring. Remove the damaged tile or plank from the floor. When removing a tile, pay attention to the orientation of the embossed arrow on the back of the damaged piece so that the new tile can be installed in the same direction. Inspect the subfloor for lumps of residual adhesive, remove and smooth out as necessary.

Using a 1/32" notched trowel, apply a thin coating of MT711 to the back of the replacement piece. Consider the thickness of the residual adhesive layer when determining the appropriate adhesive application to the replacement piece; too much adhesive will cause the replacement flooring to be higher than the surrounding tile or plank. Provide sufficient open time (typically 15 minutes) and then position the tile or plank into the repair area. Roll evenly with a hand roller and, if necessary, weight the tile or plank for several hours until the adhesive sets.

If the tile was grouted, the grout must be removed and replaced during tile replacement.

Cautions and Miscellaneous

- Furniture should be moved onto the newly-installed floor, using an appliance hand truck over hardboard runways.
- Do not place heavy items on newly-installed floor covering for at least 24 hours after completion of the installation. Heavy furniture should be equipped with suitable non-staining, wide-bearing casters.
- Floor covering subjected to excessive heat and light exposure is subject to thermal degradation. Use appropriate precautions to minimize potential effects on the floor covering.
- Oil- or petroleum-based products can result in surface staining. Do not track asphalt driveway sealer or automobile oil drips onto the vinyl floor covering.
- Use non-staining walk-off mats. Rubber can discolor resilient floor coverings.
- To achieve maximum product performance, Mannington Adura® floors should not be installed over existing resilient floor coverings. In the rare cases where removal of the existing resilient floor covering is not an option, the existing flooring must be covered with MANNINGTON MVP 2023 used as an Embossing Leveler or other appropriate porous underlayment.

Mannington MUL - The Prefect Solution for Problem Subfloors

Mannington MUL is a six-foot wide vinyl-coated sheet designed to be used as an underlayment with Adura and Adura Elements when the subfloor is not suitable for a fully adhered resilient product or when removal of the flooring system is being considered. These two options are possible because the Mannington MUL is not adhered directly to the subfloor but rather is permitted to "float" over the questionable subfloor. These subfloors are:

- Gypsum underlayments
- Residual adhesives
- Painted subfloors
- Stripwood hard wood floors
- Oriented Strand Board
- Flakeboard
- Particleboard
- Existing ceramic tile (properly prepared)
- Concrete (on all grade levels)
- Existing resilient vinyl floors

Mannington MUL is available in 85 square yard rolls 6' wide by 127.5' long. Also available in 170 square yard rolls 6' wide by 255'.

Directions for Use

Mannington MUL is intended to be used in climate controlled indoor residential locations only.

Subfloor Considerations

Although MUL may be used over many unconventional subfloor systems it is still critical that these subfloors are clean, dry, smooth, flat and structurally sound.

MUL will bridge minor cracks on the same plane on concrete subfloors. MUL is not intended for use over expansion joints (structural design joints) or structural (out-of-plane) movement cracks.

MUL Installation

- Thoroughly sweep or vacuum the entire work area.
- Plan the MUL layout so that the seams of the MUL do not coincide with the seams in the finished product. When installing Adura plank position the MUL sheets perpendicular to plank layout.
- When installing MUL over residual adhesive the adhesive must be scrapped smooth and have no residual tack.
- Unroll the MUL vinyl side down just prior to beginning the flooring installation.
- Trim the MUL back approximately 1/8" to 1/4" from all fixed vertical surfaces.
- Align the factory edges of the MUL and secure with 2" wide thin, clear tape.
- When installing Adura Luxury Flooring apply Mannington MT 711 with a 1/16" wide, 1/16" deep, 1/16" apart notched trowel. Begin applying adhesive at the pre-determined chalk lines, and provide sufficient open time so that the trowel ridges appear "cloudy" or "hazy" and the trowel "Valleys" are clear. The adhesive must be sufficiently tacky to prevent tile slippage during placement. DO NOT ALLOW ADHESIVE TO DRY AND TURN CLEAR.
- Fit the Adura Luxury flooring to the edges of the MUL sheet, maintaining the 1/8" to 1/4" expansion/contraction gap.
- Roll the Adura Luxury Flooring with a minimum 100 pound three-section floor roller immediately after installation. Roll the flooring in both directions to firmly seat the tile into the adhesive.
- When installing wall base or transitions strips do not fasten through the finished flooring or the MUL.

ADURA Loc N'Go Luxury Flooring

General Information

These installation specifications are for Loc-N'-Go Luxury Plank flooring. All recommendations are based on the most recent available information. All instructions and recommendations must be followed for a satisfactory installation.

- The floor covering should be stored and installed in climate controlled indoor locations – Temperature 65°- 85°F.
- Install Loc-N'-Go Luxury Plank flooring only after the jobsite has been cleaned and cleared of other trade apparatus that may damage a finished tile installation.
- To minimize shade variation, mix and install planks from several different cartons.
- All subfloor / underlayment patching must be done with a non-shrinking water resistant Portland cement patching compound such as Mannington MVP-2023.

Subfloor Information

Although the Mannington Loc-N'-Go Luxury Plank flooring is installed as a "Floating" floor, correct preparation of the subfloor is still a major part of a successful installation. Roughness or unevenness of the subfloor may telegraph through the new floor covering, resulting in an unsightly surface and excessive wear on high spots.

Wood Subfloors

General

All wood floors must be suspended at least 18" above the ground. Adequate cross-ventilation must be provided and the ground surface of a crawl space must be covered with a suitable vapor barrier. Wood subfloors directly on concrete or installed over sleeper construction are not satisfactory for the installation of Mannington Loc N Go flooring products.

All wood and wood composition panels are suitable for use under Loc n Go flooring providing that they are smooth, flat, structurally sound and free of deflection. This includes plywood, particleboard, oriented strand board (OSB), flakeboard and wafer board.

If the surface of the wood subfloor is not smooth, a ¼" underlayment panel should be installed over the subfloor.

Concrete Subfloors

- Concrete subfloors must be dry, smooth, and free from dust, solvent, paint, wax, grease, oil, asphalt sealing compounds and other extraneous materials. The surface must be hard and dense, and free from powder or flaking.
- New concrete slabs must be thoroughly dry (at least six weeks) and completely cured.
- All concrete slabs must be checked for moisture before installing material. Details for moisture testing can be found in the Mannington Professional Installation Guide.

The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

Although the Loc- N' Go is not susceptible to damage from moisture, excessive subfloor moisture is an ideal breeding ground for mold, mildew and fungus. All of which can contribute to an unhealthy indoor environment.

- Holes, grooves, expansion joints and other depressions must be filled with Mannington MVPP 2023 Latex Underlayment (or equivalent), and troweled smooth and feathered even with the surrounding surface.
- Concrete floors with a radiant heating system are satisfactory, provided the temperature of the floor does not exceed 90°F at any point. Before installing the flooring, the heating system should be turned on to eliminate residual moisture.

Existing Floor Coverings

Loc' N –Go can also be installed over most existing hard –surface floor coverings provided that the exiting floor surface can be made smooth.

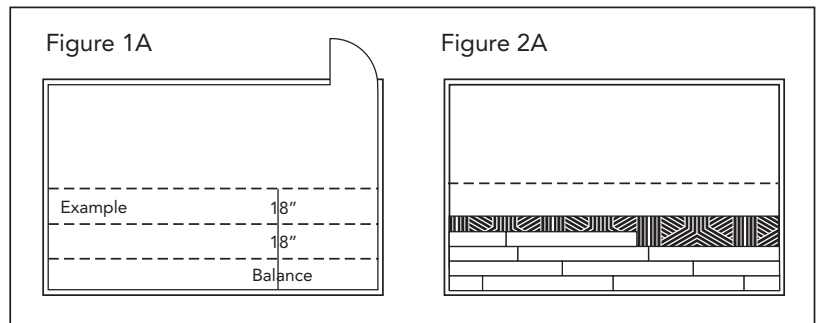
- Ceramic tile should be made smooth by applying a cementitious overlay such as patching or leveling compound.
- When the removal of the existing resilient floor covering is not an option, the existing flooring must be covered with MANNINGTON MVP 2023 used as an Embossing Leveler or equivalent. Existing sheet vinyl floors should not be heavily cushioned and consist of one layer only.

Installation

Plank Layout

Loc N Go is designed to be installed as a “floating” floor. Do not secure the planks to the subfloor. Always undercut all doorjamb. Do not install cabinets or kitchen islands on top of Loc N Go. Use care when installing wall moldings and transition strips to not fasten through the Loc N Go planks. Do not install in areas that receive excessive direct sunlight. Do not exceed a runs of 40' without providing additional expansion gap.

- It is important to balance the layout of the plank format. Proper planning and layout will prevent narrow plank widths at wall junctures. Determine layout to prevent having less than ½ plank width (2”) or very short length pieces.
- As with all plank products, lay the long dimension of the plank parallel to the long dimension of the work area.
- Accurately measure the room to determine the centerline, adjust this established line to accommodate a balanced layout and then transpose this line to a comfortable width away from the starting wall (approximately 2' to 3' wide). Determine if the starter row will need to cut. If not, it will be necessary to cut off the overhang adhesive tab, both along the full length of the plank and the end adhesive tab.
- Position the first plank so that both the head and side seam bottom adhesive tab is exposed. This requires installing the product from left to right in the room.
- Install two planks in the first row, positioned approximately 1/8” from the wall. Then cut a plank to length to start the second row, stagger the end seam at least 6” from the first plank.
- Align the top adhesive tab over the exposed bottom adhesive tab of the first plank in the first row and bring the decorative faces tightly together before engaging the adhesive tabs.
- Install the second plank in the second row in the same manner.
- Work across the length of the room installing planks along the wall in the first row and then aligning the planks in the second row. It is critical to keep these two rows straight and square, as they are the “foundation” for the rest of the installation. Check squareness and straightness often.
- If a plank is misaligned during installation, carefully pull up to release the adhesive bond on the tabs, reposition and re-engage the adhesive tabs. The longer the adhesive tabs are in contact the more difficult it will be to separate them.
- Once proper plank alignment is assured the adhesive tabs should be rolled with either a hand seam roller or a three-section floor roller to insure full and permanent contact of the adhesive tabs.
- Cut the last plank in the first row to fit approximately 1/8” short of the end wall. Planks may be cut with a utility knife using the “score and snap” technique. Often times the remainder of this plank may be used to start the third row.
- Continue installing planks, being certain to maintain a random appearance and offset end seams by at least 6”.



- When fitting around obstacles or into irregular spaces Mannington Loc N Go can be cut easily and cleanly using a utility knife with a sharp blade. It is often beneficial to make a cardboard template of the area and transfer this pattern to the plank.
- Roll the completed installation in both directions with a 100 lbs three-section floor roller.
- Protect all exposed edges of the Loc N Go by installing wall molding and/or transition strips. Use caution to prevent the fasteners from securing the planks to the subfloor.

Repairs

Plank Replacement

If a plank becomes damaged the following replacement procedure should be used:

- Using a straight edge and a sharp utility knife cut out and remove, about a 2" strip of the center of the plank. This will allow you to determine the location of the top and bottom adhesive strips of the damaged plank.
- Position a straight edge along the side seam on the bottom adhesive tab of the damaged plank and cut through the plank. This will leave the adhesive tab of the damaged plank in place, under the adjoining plank.
- Use a heat gun to help release the adhesive and slowly and carefully peel away top adhesive tab of the damaged plank from the adjoining plank.
- Insert a 2" putty knife under the adjoining plank to remove the bottom adhesive tab of the damaged piece. Once a corner is loosened, the tab can be folded under and peeled away.
- Slip a sheet of waxed paper (lining paper) under the adjoining plank(s), slip the bottom adhesive tab of the replacement plank under the waxed paper and position the top adhesive tab in place.
- Carefully remove the waxed paper to allow adhesive contact on the replacement plank and the adjoining plank(s).
- Roll the adhesive tabs with a hand roller to assure good bond.

Resilient Installation Accessories

Mannington Adhesives & Sealers

Using the proper installation accessories for a job not only reduces the chance of installation failure, but also adds to the integrity and life of a floor. We have specially engineered each of our products to meet the needs of the appropriate Mannington floor covering to produce optimum end results. We constantly strive to improve all of our products. Regular product enhancements increase the level of performance and ease of use for the installer, but we always stress the importance of adhering to all proper installation procedures.

The following products are available from your local Mannington Distributor and Retailer. Follow all directions on each product's packaging and the information contained in this handbook. If you have any questions regarding a product, contact your local Mannington Distributor or contact Mannington Mills, Inc.

V-31 Premium Latex Adhesive

Description:

V-31 adhesive is a nontoxic, nonflammable, light-colored, latex-based adhesive. It provides a water- and alkali-resistant bond for all Mannington Residential felt-backed floor coverings. You can use it over all approved suspended wood underlayments; on-, above-, or below-grade fully cured concrete; and on existing smooth, non cushioned, tightly bonded resilient floor coverings.

Features:

- Easy application
- VOC-compliant/solvent-free/low odor
- Non flammable
- Moisture- and alkali-resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

Directions:

Make sure the underfloor is clean and free of all foreign matter such as dirt, paint, oil, wax, etc. It must be smooth and level. Sand off high spots and fill low spots, cracks, holes, etc., with the appropriate Mannington patching compound.

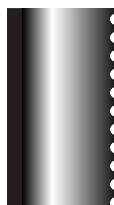
Maintain the adhesive, floor covering, and job site at a temperature of at least 65°F for a minimum of 48 hours before, during, and after the installation.

Porous Substrate



On porous underfloors, apply the adhesive with a trowel having notches 1/16" wide, 1/16" deep, spaced 1/16" apart.

Nonporous Substrate



On nonporous underfloors, apply a thinner spread of adhesive using a trowel with notches 1/16" wide, 1/32" deep, spaced 1/32" apart.

Lay the floor covering into the adhesive to avoid trapping air under the sheet. Do not drop or flop the material into the adhesive. Allowing some open time will eliminate the possibility of gas bubbles or adhesive displacement. (This is especially important on nonporous underfloors.) Do not allow the adhesive to form a skin or to overdry.

Immediately roll the adhered material in both directions using a 75-lb (or heavier), three-section floor roller.

You can clean fresh adhesive smears with water. Dried adhesive can be removed with mineral spirits.

Avoid heavy traffic on the finished installation for 24 hours.

Coverage:

Approximately 135 to 180 sq ft per gallon

Packaging:

4-gallon pail #839835
44 lbs (19.98 kg)

1-gallon can (4 per carton) #839831
Carton weight 44 lbs (19.98 kg)



Precautions:

- Do not use with Perimiflex or any other vinyl-backed materials.
- Do not use where excessive moisture, alkali, or hydrostatic pressure exists.
- Use with adequate ventilation.
- Avoid contact with eyes.
- Do not ingest.
- KEEP OUT OF THE REACH OF CHILDREN.

Resilient Installation Accessories (continued)

V-61 Perimiflex Adhesive

Description:

V-61 adhesive is a latex adhesive for use with Mannington Perimiflex products installed over porous and non-porous underfloors. You can use it over all approved suspended wood underlayments, concrete floors of all grade levels, and existing vinyl floors.

Features:

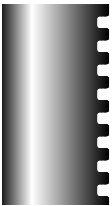
- Smooth, easy troweling
- Low odor
- Nonflammable
- Plasticizer-resistant
- Easy cleanup with water
- Readily identifiable Mylar chips

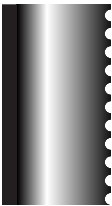
Directions:

V-61 is intended for use on porous and nonporous underfloors. Make sure the underfloor is clean and free of all foreign matter such as dirt, paint, oil, wax, etc.

Maintain the adhesive, floor covering, and job site at a temperature of at least 65°F for a minimum of 48 hours before, during, and after the installation.

Apply V-61 with the supplied trowel in approximately a 3" wide band around the perimeter of the room and around any pipes, fixtures, or floor registers.

Porous Substrate

 On porous underfloors, apply the adhesive with a trowel having notches $\frac{1}{16}$ " wide, $\frac{1}{16}$ " deep, spaced $\frac{1}{16}$ " apart.

Nonporous Substrate

 On nonporous underfloors, apply a thinner spread of adhesive using a trowel with notches $\frac{1}{16}$ " wide, $\frac{1}{32}$ " deep, spaced $\frac{1}{32}$ " apart.

Spread V-61 in approximately a 6" wide band centered on all seam lines. Keep the adhesive spread uniformly and consistently, with no skips or misses. Do not apply excessive adhesive.

Provide adequate tack or open time when using Perimiflex* adhesives. Do not allow adhesive to "skin over" before laying the material into the adhesive.

Roll the adhered areas with a hand seam roller to embed the material into the adhesive.

Clean fresh adhesive smears with water. Remove dried adhesive with mineral spirits.

*When applying V-61 adhesive over nonporous surfaces, it is best to provide approximately a 10-minute open time before placing the flooring material into the adhesive.

Coverage:

Maximum coverage for V-61 is 110 lineal feet (33.5 m) in a 3" wide (7.6 cm) band per quart.

Packaging:

1-quart can (12 per carton) #839861
 Carton weight 36 lbs (16.3 kg)

Precautions:

- Keep adhesive from freezing
- Use with adequate ventilation
- Vapor is harmful
- Do not ingest
- Avoid contact with eyes
- KEEP OUT OF THE REACH OF CHILDREN

MT-711 Adhesive Mannington Adura® Flooring and Sobella™ (Fully Adhered)

Description:

Mannington MT-711 adhesive is pressure sensitive, solvent free, and acrylic based. It is nonflammable, and anti-microbial with zero calculated VOC's.

Features:

- Easy application
- VOC-compliant/solvent free/low odor
- Non-flammable
- Moisture and alkali resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

Substrate Preparations:

The floor must be sound, smooth, dry and clean. Mechanically remove any dirt, wax, loose paint, dry adhesive and all foreign matter that would interfere with a good bond. Cutback adhesive must be removed and/or covered prior to applying adhesive for installing Mannington flooring. The installation site must be temperature and humidity controlled by the use of permanent HVAC or equivalent system. The floor and room temperature as well as flooring materials and adhesive, must be maintained at 65° - 95° F (18.3° - 35.0° C), and the humidity below 65% for 48 hours prior to, during, and after the testing and installation. Do not use on substrates that have been chemically cleaned.

Concrete subfloors must be tested for moisture vapor emissions rate (MVER) per Calcium Chloride Test Method ASTM F1869, or for in-situ Relative Humidity per ASTM F2170. The surface pH must not exceed 9.0. MVER of concrete substrates must be below 3.0 lbs., or with in-situ Relative Humidity below 75% per ASTM F2170. Site conditions, floor preparations, and moisture and alkalinity must comply with either appropriate ASTM F710 or CRI 104 guidelines.

Resilient Installation Accessories (continued)

Installation Procedures:

Mannington Residential Adura® Luxury Vinyl Floors

Apply Mannington MT-711 adhesive with a $\frac{1}{16}$ " x $\frac{1}{16}$ " x $\frac{1}{16}$ " U-notched trowel. The MT-711 adhesive should be given sufficient open time so that the trowel ridges appear "cloudy" or "hazy" and the trowel "valleys" are clear. Begin applying adhesive at the intersection of the chalk lines, spread only as much adhesive as can be covered before the adhesive becomes completely clear. The adhesive must be sufficiently tacky to prevent slippage during placement. Do not spread adhesive in an area too large to control adhesive tack times. Adhesive coverage is approximately 150 square feet per gallon. (3.68 m²/L).

Mannington Sobella® Residential Sheet Flooring

When the Fully Adhered Installation System is used, apply the MT-711 adhesive with a $\frac{1}{16}$ " x $\frac{1}{32}$ " x $\frac{1}{32}$ " U-notched trowel over 100% of the exposed subfloor, avoiding puddles or thin spots. Immediately after adhesive application, gently position the sheet into the adhesive. If the subfloor is non-porous provide some additional open time. Roll the material in both directions with a 75 - 100 lbs. (34.9 - 45.4 Kg), or heavier three-section floor roller. When the Loose Laid Installation System is used, apply the adhesive in a 6-inch band centered on the seam using a $\frac{1}{16}$ " x $\frac{1}{32}$ " x $\frac{1}{32}$ " U-notched trowel. Also apply adhesive around any in-floor forced air vents. Adhesive coverage is approximately 25 square feet per gallon (5.52 m²/L).

Packaging:

1-gallon pail #849889, weighs approximately 9 lbs (4.08 kg) 4 per carton

4-gallon pail #849886, weighs approximately 37 lbs (16.33 kg)

Precautions:

- Use with adequate ventilation
- Do not use where excessive moisture, alkali, or hydrostatic pressure exists
- Do not apply directly over gypsum-based surfaces
- Prevent prolonged breathing of vapor and skin contact
- Avoid contact with eyes
- KEEP OUT OF THE REACH OF CHILDREN

Seam Sealers/Applicators

MSS 20 Standard Sealer

Description:

MSS 20 is used to seal all seams in Mannington Resilient products with a vinyl wearlayer. MSS 20 provides a chemical "weld" to provide a continuous, impervious surface. A properly sealed seam will be as strong as the surface of the floor covering, and will remain intact for the life of the floor.

Directions:

Prior to sealing the seam, make certain all seams are clean, dry, and free of adhesive contamination.

Fill the VST-96 professional applicator bottle (sold separately) at least $\frac{2}{3}$ full of sealer. After securing the VST tip to the applicator bottle, allow the bottle to stand until all air bubbles have dispersed.

Check the flow of the sealer through the fin on a scrap piece of flooring prior to use.

Use the forefinger of one hand on the top flat portion of the tip to guide and ensure proper fin penetration. Use the other hand to control sealer flow. Hold the bottle at approximately a 45° angle.

Lightly squeeze the bottle to apply a uniform bead of sealer approximately $\frac{1}{8}$ " wide, centered on the seam cut.

It is crucial that the seam sealer penetrate the full thickness of the seam cut to ensure a proper chemical weld.



Resilient Installation Accessories (continued)

Allow the sealed seam to dry at least one hour before permitting traffic on the floor. Avoid walking or moving furniture directly over the sealer until it is fully dry; 24 hours is recommended. Mark the seam by placing scrap pieces of flooring on both sides of the seam.

When sealing multiple seams, keep applicator tip open by inserting the supplied cleaning wire.

After all seams are sealed, pour unused sealer back into pint can. Do not store seam

sealer in the applicator bottle. Thoroughly rinse the applicator bottle and tip with a solvent such as mineral spirits. Insert cleaning wire into applicator tip to keep it clear. Applicator bottle can be reused. Prior to use, make certain the applicator bottle is dry and completely clean.

Coverage:

One pint of MSS 20 seam sealer will seal approximately 400 to 600 lineal feet of seams.

MSS 20 is also available in 2-oz consumer tubes (MCT 20) designed for do-it-yourself consumers. One tube will seal approximately 60 to 90 lineal feet.

Packaging:

1-pint can (12 per carton) #832202
Carton weight 15 lbs (6.8 kg)

2-oz tube (12 per carton) #832203
Carton weight 3 ¼ lbs (1.5 kg)

Precautions:

- Flammable liquid. Do not use near heat, sparks, pilot lights, fire, or other open flames
- Do not ingest
- Use with adequate ventilation
- Avoid contact with skin and eyes
- Avoid prolonged breathing of vapors
- Keep container tightly closed when not in use
- KEEP OUT OF THE REACH OF CHILDREN



High Gloss MHS 22 Urethane Sealer Kit

Description:

MHS 22 sealer (two-part seam sealer) is designed for Mannington products with high-gloss urethane-based wearlayers. There is no substitute sealer available. A properly sealed seam will be as strong as the surface of the floor covering, and will remain intact for the life of the floor. The new Versatile Sealing Tip (VST-96) is included in this kit.

Directions:

Prior to sealing, be certain all seams are clean, dry, and free of adhesive contamination.

Empty entire contents of Parts A and B into the supplied applicator bottle. After securing the VST tip to the applicator bottle, gently shake the bottle to mix the ingredients. Allow the bottle to stand until all air bubbles have dispersed, typically 15 minutes.

Prior to use, check the flow of the sealer on a scrap piece of flooring.

Use the forefinger of one hand on top of the flat portion of the tip to guide and ensure proper fin penetration. Use the other hand to control sealer flow. Hold the bottle at approximately a 45° angle.

Lightly squeeze the bottle to apply a uniform bead of sealer approximately 1/8" wide centered on the seam cut.

It is crucial that the seam sealer penetrate the full thickness of the seam cut to ensure a proper chemical weld.

Allow the sealed seam to dry before traffic is allowed on the floor. Do not walk on or move heavy furniture directly over the sealer until it is fully dry. We recommend 24 hours. Mark the seam by placing a scrap piece of flooring along each side of the seam.

MHS 22 **cannot** be saved for reuse. Safely discard any unused sealer.

Coverage:

One kit of MHS 22 will seal approximately 70 lineal feet of seams.

Packaging:

6 kits per carton #832222
Carton weight 3 lbs (1.4 kg)

Precautions:

- Flammable liquid. Do not use near heat, sparks, pilot lights, fire, or other open flames
- Do not ingest
- Avoid contact with skin and eyes
- Use in well-ventilated areas
- Avoid prolonged breathing of vapors
- Do not save for reuse
- KEEP OUT OF THE REACH OF CHILDREN

Resilient Installation Accessories (continued)



Low Gloss MLG 33 Urethane Sealer Kit

Description:

MLG 33 sealer (two-part seam sealer) is designed for Mannington products with low-gloss vinyl or urethane-based wear-layers. A properly sealed seam will be as strong as the surface of the floor covering, and will remain intact for the life of the floor. The Versatile Sealing Tip (VST-96) is included in this kit.

Directions:

Prior to sealing, be certain all seams are clean, dry, and free of adhesive contamination.

Part B, which contains the de-glossing agent, must be shaken vigorously before blending with Part A.

Empty entire contents of Parts A and B into the supplied applicator bottle. After securing the VST tip to the applicator bottle, gently shake the bottle to mix the ingredients. After mixing, the bottle should stand until all trapped air bubbles have dispersed, typically 15 minutes.

Prior to use, check the flow of the sealer on a scrap piece of flooring.

Use the forefinger of one hand on top of the flat portion of the tip to guide and ensure proper fin penetration. Use the other hand to control sealer flow. Hold the bottle at approximately a 45° angle.

Lightly squeeze the bottle to apply a uniform bead of sealer approximately $\frac{1}{8}$ "

wide centered on the seam cut.

It is crucial that the seam sealer penetrate the full thickness of the seam cut to ensure a proper chemical weld.

Allow the sealed seam to dry before traffic can be allowed on the floor. Do not walk on or move heavy furniture directly over the sealer until it is fully dry. We recommend 24 hours. Mark the seam by placing a scrap piece of flooring along each side of the seam.

MLG 33 **cannot** be saved for reuse. Safely discard any unused sealer.

Coverage:

One kit of MLG 33 will seal approximately 70 lineal feet of seams.

Packaging:

6 kits per carton #832233
Carton weight 3 lbs (1.4 kg)

Precautions:

- Flammable liquid. Do not use near heat, sparks, pilot lights, fire, or other open flames
- Do not ingest
- Avoid contact with skin and eyes
- Use in well-ventilated areas
- Avoid prolonged breathing of vapors.
- Do not save for reuse
- KEEP OUT OF THE REACH OF CHILDREN



ST-96 Professional Applicator Kit

Description:

The Professional Seam Sealer Applicator Kit contains a 4-ounce bottle, a tip cleaning pin, and the Versatile Sealing Tip (VST-96). The kit is intended to be used with Mannington MLG 33 and MCS 42 seam sealers. (MLG 33 seam sealer kits contain the VST-96.) The ergonomic design and specially engineered tip help apply the appropriate amount of seam sealer while completely penetrating the seam cut for all Mannington Residential and Commercial Resilient sheet flooring applications. Prior to sealing seams in all products, make certain that all seams are clean, dry, and free of adhesive contamination.

Packaging:

6 per carton #832204
Carton weight 2 lbs (0.9 kg)

Resilient Installation Accessories (continued)

Floor Care Products

Mannington Award Series® Floor Care Products

This is the most professional way to keep Mannington Resilient floors looking new. It gives consumers the materials needed to clean and maintain their new floor from day one.

Rinse-Free Cleaner

Description:

Removes dirt easily for a cleaner, shinier floor

Coverage:

200 sq ft per quart

Packaging:

(MFC-11) #8321106 quarts per carton
Carton weight 13 lbs (5.9 kg)



Rinse-Free Cleaner

Heavy Duty Cleaner & Stripper

Description:

Dissolves stubborn dirt and built-up floor polish

Coverage:

200 sq ft per quart

Packaging:

(MFS-13) #832130
6 quarts per carton
Carton weight 13 lbs (5.9 kg)



Heavy Duty Cleaner & Stripper

High-Gloss Polish

Description:

Restores floor finish with a long-lasting shine

Coverage:

500 sq ft per quart

Packaging:

(MFP-15) #832150
6 quarts per carton
Carton weight 13 lbs (5.9 kg)



High-Gloss Polish

Patching & Leveling Compounds

MVP-2023

Description:

A fast-setting, polymer-modified, cement-based patching compound which, when mixed only with water, is used to level concrete and approved wood underlayment prior to the installation of a floor covering. Floor covering can be installed in just one hour after application. When mixed with MVP 2023 Additive, it can be used as an embossing leveler over vinyl sheet goods, vinyl composition tile, cement terrazzo, and residual cutback surfaces.

Uses:

- For patching and filling cracks, holes, voids, and depressions in concrete and approved wood underlayment prior to the installation of floor coverings.
- When mixed with MVP-2023 Additive, it can be used as an embossing leveler over vinyl sheet goods, vinyl composition tile, cement terrazzo, and residual cutback surfaces.
- For repairing subfloors from featheredge to ½" (12.5 mm) thickness. If needed, MVP-2023 can be applied in two layers to exceed thicknesses greater than ½" (12.5 mm). **Note:** First layer must be completely dry.
- Offers a compatible bond with all floor covering adhesives when these adhesives are subsequently used for the installation of floor covering materials.
- For floors that require a high compressive strength patching compound. Will resist caster chair traffic.

Limitations:

- For interior use only.
- **Do not** apply over presswood, flakeboard, metal, or similar type substrates. Follow the floor covering manufacturer's recommendations regarding proper underlayment qualities.
- **Do not** apply directly over gypsum-based substrates.

Resilient Installation Accessories (continued)



- When applying a skim coat of MVP-2023 [less than $\frac{1}{32}$ " (0.8 mm)] over porous or very dry substrate, mix MVP-2023 with diluted MVP-2023 Additive to prevent premature dehydration (see mixing ratio in the technical data table).
- **Do not** use as a concrete resurfacing material when concrete surface is to be left exposed or unprotected.
- **Do not** use for leveling large surfaces.
- **Do not** use when the substrate temperature is below 50°F (10°C) or above 100°F (38°C).

Recommended Substrates:

MVP-2023 mixed with water or diluted MVP-2023 Additive (1 part in 3 equal parts of water):

- Fully cured concrete.
- Any wood underlayment that is recommended or guaranteed by either the wood manufacturer or the floor covering manufacturer, such as Exterior grade plywood, Group 1, CC type.

MVP-2023 mixed with MVP-2023 Additive (full strength)

- Properly prepared vinyl composition and vinyl asbestos tile or non-cushioned sheet goods (vinyl or urethane wear layers).
- Properly prepared cement terrazzo.
- Residual cutback adhesive.
- Ceramic tile.

Packaging:

Boxes: 4.4 lbs (2 kg); 10 lbs (4.5 kg)

Pail: 40 lbs (18.1 kg)

Bags: 25 lbs (11.3 kg); 50 lbs (22.7 kg)

#832165

Color:

Gray

Shelf Life:

Six months when stored in original container at room temperature 72°F (22°C) in a dry area.

Mixing Ratios:

MVP-2023 Additive System (MVP-2023 mixed with MVP-2023 Additive)

Full Strength Mixture:

Mix 2.5 parts MVP-2023 powder with 1 part MVP-2023 Additive liquid.

Diluted Mixture:

Dilute MVP-2023 Additive liquid using 1 part MVP-2023 Additive with 3 parts water. Then, mix 2.5 parts MVP-2023 powder with 1 part diluted MVP-2023 Additive.

Thickness Recommendations:

MVP-2023 mixed with water:
Up to $\frac{1}{2}$ " (12.5 mm) per application

MVP-2023 mixed with MVP-2023 Additive:
Diluted MixtureUp to $\frac{1}{4}$ " (6 mm)
(3 parts water/1 part MVP-2023 Additive)

Full StrengthUp to $\frac{1}{8}$ " (3.2 mm)
Mixture

Approximate Coverages:

	Thickness	
	$\frac{1}{32}$ " (0.8 mm)	$\frac{1}{16}$ " (1.6 mm)
10 lbs (4.5 kg)	40 - 56 sq ft (3.7 - 5.2 m ²)	20 - 28 sq ft (1.8 - 2.6 m ²)
25 lbs (11.3 kg)	100-140 sq ft (9.3 - 13.0 m ²)	50 - 70 sq ft (4.6 - 6.5 m ²)

MVP-2023 Additive

Description:

An acrylic latex additive to be used with MVP-2023 for superior bond strength and to extend the pot life of the MVP-2023. This system is ideal for leveling non-cushioned embossed mineral fibrous felt-backed sheet goods with a vinyl or urethane wear layer, and non-cushioned embossed vinyl tiles. MVP-2023 Additive mixed full strength with MVP-2023 may also be used to skim-coat existing cutback adhesive residue prior to the direct glue-down installation of floor coverings.

Uses:

- For leveling non-cushioned embossed mineral fibrous felt-backed sheet goods that have a vinyl or urethane wear layer.
- For leveling non-cushioned embossed vinyl tile.
- For use as an underlayment over existing unglazed ceramic tile.
- For use as an underlayment over cutback adhesive residue.
- For use over cement terrazzo.
- To extend the pot life of the MVP-2023 mix up to 20-30 minutes.
- For thin application of MVP-2023 over very porous or dry concrete to eliminate the premature dehydration of the patching compounds.
- When diluted 1:1 with water, MVP-2023 Additive may be used as a primer.

Packaging:

Jug: 1 US gal. (3.7 L) #832166

Color:

Milky white

Shelf Life:

12 months when stored in original container at room temperature in a heated area. Protect from freezing.

Approximate Coverages:

The coverage of MVP-2023 Additive depends on the usage of MVP-2023.