



## Sobella™ Installation Methods

Sobella's™ installation methods simplify the installation process and let installers match the installation technique to the job site conditions. Sobella™ can be installed by using the Fully Adhered technique or the Loose Laid technique.

- **FULLY ADHERED:** The Fully Adhered technique has a long history of proven success. It's the best technique in areas subjected to heavy foot or rolling traffic, or in more complex job sites with multiple alcove drops, center islands, or when intricate net-fit cutting is required.
  - This technique requires that the flooring product be fully adhered to an acceptable substrate using Mannington MT-711 Adhesive. Acceptable substrates are clean, dry and smooth. They include both wood panel and concrete underfloors.
- **LOOSE LAID:** Loose Laid is the easiest installation method. Using this method, Sobella™ is fit just slightly short of all vertical surfaces (1/8" to 1/4" away) so that it lies completely flat with no fullness or "pinch points." This installation method makes removal of the floor at the end of its life cycle remarkably easy.
  - Loose Laid floors can be installed over many substrates that are not suitable for Fully Adhered products (particleboard, chipboard, flakeboard, lightweight concrete).
  - Only one major seam is permitted when installing with the Loose Laid systems.
  - Never secure any permanent fixtures into the Sobella™. The product must be "free floating" with no "pinch points."
  - This non-adhered installation method allows the material to be rolled back to correct any substrate problems, and is easily removed when required.

**No matter which installation system will be used it's important to consider the following:**

### Storage and Handling

Sobella™ must be stored in a protected interior location, ideally one that can be climate controlled. Optimum storage temperatures are between a low of 65°F and high of 100°F. Additionally, the humidity of the storage area should be controlled and maintained between 30% and 70%.

Always store Sobella™ tightly rolled, face out on a sturdy cardboard core designed for that purpose. Store the roll horizontally and support it across the entire width.

Flooring products can be heavy and bulky. Be good to yourself and always use proper lifting techniques when handling these products. Whenever possible, make use of material-handling equipment such as dollies or material carts. Never lift more than you can safely handle; get assistance. Flooring products can be damaged by rough handling before installation. Exercise care when handling and transporting these products.

Before starting the job, always check the flooring materials to ensure they are the correct pattern, style, and color. Also make sure that the size and amount of the products are sufficient to complete the installation. Inspect the materials closely before installation for any visible defects. Mannington Flooring products are manufactured to high-quality standards and are carefully inspected before leaving our facility. Occasionally, however, defects are not detected. If you notice a visible defect in the flooring product, stop the installation and contact your local Mannington Distributor for assistance.



**NOTE:** Mannington Floors will not pay labor charges on claims filed for materials installed with obvious visible defects.

## Job Site Conditions

The environment where Sobella™ is to be installed is critically important in regard to successful installation and continued performance of the flooring products. Mannington is intended to be installed in interior locations only. These interior locations must meet climatic and structural requirements as well.

## Temperature Requirements

Do not install Sobella™ until the work area can be temperature controlled. We recommend that the work area be maintained at a minimum temperature of 65°F and a maximum temperature of 100°F for 48 hours before and after the installation and while installing. This requirement can seldom be fulfilled with temporary space heaters. A permanent heating or cooling source should be operational before proceeding with the installation of any flooring product. For the entire life of the floor, the temperature should never fall below 55°F. If this minimum temperature cannot be maintained, the performance of the flooring products and adhesives can be adversely affected. Ideally, the job site relative humidity will be maintained in the 30% to 70% range.

## Radiant-Heated Subfloors

You may install Sobella™ over hydroponic radiant-heated flooring systems, provided the surface temperature of the system does not exceed 90°F. Before installing flooring products over newly constructed radiant heating systems, operate the system at maximum capacity to force any residual moisture from the cementitious topping of the radiant heating system. Then set the thermostat to a comfortable room temperature for the installation. There are many In-floor warming systems being introduced, while most of these systems are compatible with rigid products such as ceramic or hardwood, they are generally unsuitable with resilient flooring products. Always check with the flooring manufacturer before covering these in-floor warming systems.

For the smoothest job and best results, always condition flooring, adhesives, and installation accessories to the job site temperature before beginning the installation.

## Structural Requirements

The structural integrity of the job site is critical for satisfactory flooring installation. The type and method of construction, grade level, and flooring system components all impact the installation of flooring products. Many times, local building codes establish only minimum requirements for flooring systems. These minimum requirements may not provide sufficient rigidity for successful installation and continued performance of flooring products. Structural flooring systems are either constructed of concrete (or cementlike materials) or wood.

## Cutting & Fitting

You may use pattern scribing, freehand knifing, or direct scribing techniques when installing Sobella™. The material is flexible and will handle easily for cutting and fitting. Always fold the material in a wide radius to avoid sharp kinks and creases that may cause breaks in the backing. You may flash cove Sobella™ only when using the Fully Adhered technique.

## One Piece Installation

Thoroughly clean the subfloor, sweep or vacuum to remove all dust and debris.

Remove any quarter round, shoe base or wall base, and undercut any doorways.

Precut the floor covering to fit the area, allowing 2" to 4" extra length and width for fitting. Position the resilient flooring in the room, allowing enough material to drop into offsets, closets, alcoves, etc.

Align pattern squarely in room, parallel to all walls. If the room is not square, align the pattern so the run-off is located in the least conspicuous area. After the sheet is positioned, weight it to prevent shifting. Make relief cuts around unusual objects such as pipes, fixtures, floor registers, etc. Make relief cuts on all inside and outside corners. Rough-cut the sheet to remove excess material. Trim and fit the perimeter so the floor covering lies flat.

### FULLY ADHERED

When using the Fully Adhered technique, apply the adhesive with a 1/16" wide, 1/32" deep, and 1/32" apart notched trowel.

After trimming the material to fit the room, tube or lap it back to expose approximately half of the underfloor. Strike a white chalk line near the fold of the material. This line provides a guide for adhesive application. Spread the adhesive, leaving no gaps, voids, puddles, or thin spots, over 100% of the exposed underfloor. Keep the trowel clean and properly notched to maintain this uniform coverage.

**Immediately after adhesive application, gently position the sheet into the adhesive.** Roll the floor covering forward into the adhesive to avoid trapping air. Do not drop or flop the material into the adhesive. Using a 75-lb (or heavier) three-section floor roller, roll the material in both directions, starting in the middle of the sheet width and rolling toward the edges. This process eliminates air and embeds the floor covering into the adhesive. Roll areas that cannot be reached with a floor roller, with a hand seam roller.

**Failure to roll the floor covering can result in the following problems:**

- Lack of bond between material and underfloor
- Telegraphing of adhesive ridges
- Permanent indentations when heavy items are placed on the new flooring, resulting from adhesive displacement

When the first half of the material is adhered and rolled, fold back the second half and repeat the procedure. When folding back the sheet, use extreme caution to prevent tearing the felt backing at the glue line. Also, be careful to regulate the adhesive spread at the glue line. This will avoid an adhesive ridge left in the center of the sheet.

### LOOSE LAID

The most critical requirement when loose laying a one-piece Sobella™ installation is to be certain that the material is laying flat and positioned squarely in the room. In long drops, pull a string down a pattern line to assure that the material is positioned squarely in the work area.

Provide a gap of between 1/8" and a 1/4" around all edges of the Sobella™ flooring. Once the Sobella™ is positioned in the room, allow 15 to 20 minutes for the material to relax and lay flat before the final trimming. Undercut all door casings so the material can be slid under these casings without "pinching" or locking material. When fitting around in-floor forced-air vents, it is necessary to apply a narrow band of adhesive around the vent to prevent air from being blown under the flooring.

**Never secure cabinets or other permanent fixtures on top of loose laid Sobella™. Be certain that wall base and transition strips are not fastened into the Sobella™.**

### Seamed Installation

When the work area requires more than one Sobella™ drop, determine the best possible placement of the seam. **If the work area requires more than one seam, the Fully Adhered method must be used.** Fit and cut the first sheet as in a one-piece installation. Weight this sheet to prevent it from shifting. Position the second sheet in the room and align it to the first sheet for accurate pattern match. Once you have achieved pattern alignment, weight the second sheet to prevent it from shifting.

### Pattern Matching

When your work area requires more than one sheet of material, provide additional length on the second and succeeding sheets to allow for proper pattern alignment. Install Sobella™ using the "Reverse" or "Do Not Reverse" method.

### Seam Cutting

Seaming is one of the most important aspects of resilient sheet installation. Always double-cut seams in Mannington Sobella™ with a new, sharp utility knife blade.

### Double-Cutting of Seams

The most accurate method for cutting seams in Sobella™ is double-cutting. In this technique, both sheets are cut at the same time. This ensures the edges of both sheets are cut exactly the same, with no gaps or fullness. **The construction of Sobella™ will not permit the product to be compressed or stretched into match.** Overlap the sheets of Sobella™ and bring the pattern into an exact match. The most accurate method of maintaining the pattern grout line width is to make the seam cut along the side of the grout line. With the sheets aligned, position the steel straightedge so it completely covers the grout line of the top sheet. Using the straightedge as a guide, cut the length of the seam in the "shadow" of the grout line with a utility knife. This technique will ensure that all grout lines are of the same width.

Cut the seam net, not full. Do not add fullness to the cut by placing scrap under the seam. Keep the knife blade parallel to the straightedge, at a 90° angle to the floor covering.

All seams are to be double cut "dry."

When using the Fully Adhered technique, the sheets will be adhered up to a pre-determined dry zone; the seam is cut and then a uniform application of MT 711 is applied. After providing sufficient open time, carefully position the sheets into the adhesive and roll across the seam with a hand roller.

If the Loose Laid system is used, after cutting the seam, apply a 6" band of MT 711 at the seam line, provide sufficient open time and then carefully position the sheet edges into the adhesive. Use caution to prevent the sheet edges from getting into the adhesive. Roll the seam area with a hand seam roller.

### Seam Sealing

All seams in Sobella™ flooring must be sealed with Mannington MLG 33 two-part seam sealer. Thoroughly mix all of part A and part B into the supplied VST applicator bottle. When using MLG 33 two-part seam sealer, it is necessary to mix the entire contents of Parts A and B. Once mixed, MLG 33 cannot be saved for re-use. Check the flow of sealer through the applicator tip on a scrap piece of material, before use. If the flow is restricted, insert the cleaning wire into the tip to clear the obstruction. Before sealing the seam, make sure the seam cut is clean, dry, and free of adhesive contamination.

Insert the plastic fin of the VST slightly back from one end of the wall and push forward to make full penetration of the fin. Use your forefinger to apply a downward pressure on the flat, textured "head" of the VST. Gently squeeze the bottle to start the flow of the sealer. In a slow, continuous motion, pull the applicator along the length of the seam.

You must apply seam sealer into the seam cut and leave a bead of sealer approximately 1/8" wide centered on the seam.

Remember, it is crucial that the seam sealer be applied to the full thickness of the floor covering from top to bottom. To ensure a strong, tight seam, make certain there are no skips or voids along the cut.

Allow seam sealer to completely dry before walking on the seam or moving furniture over it. We recommend waiting 24 hours.

### Finishing and Maintenance

#### Molding and Base Installation

Protect all exposed edges of the flooring with trim or restrictive molding.

- Always use moldings and transition strips over product edges.
- Nail wood moldings into the wall and not into the floor covering.
- Use metal or vinyl transition or reducer strips where Sobella™ meets other types of flooring, and at doorways.
- Apply a bead of silicone or latex caulk around bathtubs, shower stalls, toilets, and patio doors.

#### Job Site Cleanup

To enhance the appearance of the finished installation, it is always good practice to thoroughly clean the area before leaving.

- Sweep the floor.
- Remove all scraps and trash from the job site. (Leave any large pieces of flooring, rolled face out, with the customer for future repairs.)
- Remove any adhesive smears or residue from the surface of the flooring with a clean cloth dampened with mineral spirits or lighter fluid. (WARNING – flammable)
- If possible, wait 24 hours before moving furniture or appliances onto or across the floor. Always use wood or hardboard runways to move furniture and/or appliances, even when using a dolly. **This is especially important when using the Loose Laid installation method.**
- Leave Mannington maintenance and warranty literature with the customer. These are available from your Mannington Distributor.

## Repairs

### Small Cuts

Small cuts will eventually gap open. To repair, clean any dirt from the cut and apply MLG 33 seam sealer.

### Replacing Damaged Areas – Plugs

If you must replace a damaged area, follow these steps:

- Select a design element from the scrap material that matches the design to be removed from the existing resilient. Accurately overlay this piece over the damaged area.
- Double cut on the inside of the grout line, if possible, and remove the damaged piece. If the floor covering you are repairing is installed over existing resilient flooring, be careful not to cut too deep.
- If the Sobella™ was installed Fully Adhered apply a thin layer of MT 711 to the back of the repair piece and place into position. Roll with a hand roller. Apply MLG 33 seam sealer. Protect from foot traffic until sealer is fully cured.
- If the Sobella™ was installed Loose Laid apply a thin layer of MT 711 on the back of the repair piece as well as under the edges of the repair area. Position the repair piece into the cut-out area and lightly roll the area with a hand seam roller. Apply MLG 33 seam sealer. Protect from foot traffic until sealer is fully cured.

### Residential Perimiflex Installation System for Aurora® Flex

Follow all General Installation Guidelines as described on pages 5-10. Mannington has designed Perimiflex-backed products specifically to be installed by perimeter fastening only. This permits you to install these products over many types of underfloors not suitable for a fully adhered installation.

Currently only Mannington Aurora Flex utilizes the Perimiflex system.

### Perimiflex Packaging and Handling Procedures

- Always store and transport Perimiflex products rolled tightly, face out, and secured with tape on a heavy 4" core. Rolls not wound tightly can cause buckling/bubbling problems. Never store this type of floor covering rolled face in.
- All Perimiflex material must be rolled with interleaf paper. Failure to use interleaf paper may lead to scalloped edges. Scalloped edges make pattern matching more difficult, and can lead to buckles after installation.
- Caution must be taken to ensure the interleaf paper is not wrinkled within the roll. Wrinkled paper can cause undesirable dull impression marks. Although most impression marks will disappear in time, care must be taken to avoid their original formation.
- Never write on the Perimiflex backing with ink pens, felt-tipped markers, or waxed crayons. Also, do not use these markers on the underfloor, since they may bleed through to the face of the material. Use a lead pencil to do any marking on the Perimiflex backing.
- Do not allow the roll to sag or bend during storage and/or transportation. Distorted materials may not lie flat. If material is flattened or distorted during storage or transporting, do not attempt to install it. Rolling the Perimiflex material tightly around a core face out and leaving it rolled for several hours may remove most distortion.
- Always use plywood or hardboard runways when moving appliances or heavy furniture. Use these runways even if using an appliance dolly or if the heavy objects are equipped with wheels or rollers.

### Cutting and Fitting

Keep the Perimiflex material tightly rolled face out until you have prepared the underfloor. Remove all baseboard quarter round or moldings from the perimeter of the work area. Undercut door trims and casing with a jamb or hand saw so you can tuck the material underneath. Once the material is unrolled, completely install it in less than two hours.

This ensures the material will retain its full contractibility, and will remain flat and tight after installation.

### Seam Cutting & Seam Sealing

#### Seamed Installation

When the work area requires two or more pieces of material, you must complete the seaming steps before fastening the perimeter of the material. Make seams in the Perimiflex Installation System using the "straightedge and butt" method.



**NOTE:** The "straightedge and butt" seaming procedure requires you to use a straightedge to trim the selvage edges of the sheets. The pattern is brought into match and the edges butted together. A short straightedge (like the leg of a framing square) often makes following the grout line easier.

## Residential Resilient Installation Guide (continued)

### Straightedge & Butt Method

"Reverse" or "Do Not Reverse" sheets as instructed. Position the new seam at least 4" from any seam or tile lines in existing resilient flooring and 6" from underfloor joints. If the job requires seaming, follow these steps:



Weight the first piece of material to avoid shifting. Using a straightedge as a guide, cut the seam on one shoulder of the grout line, leaving the pattern or grout line on the sheet. When cutting seams over an existing resilient floor, protect the existing flooring from knife cuts.



Position the material in the room, aligning the pattern squarely with the walls. Match the pattern at the seam line.



Cut off the grout on the second sheet, remembering to cut on the shoulder of the grout line.



Put the seams together and place masking tape over the seam in several places to hold it in place.



Cut and fit the material to the room.



Fold back both seam edges and sweep underfloor where adhesive will be applied – the seam line and the perimeter of the room. Apply a 6" wide band of Mannington V-61 adhesive centered on the seam line.



After applying the adhesive down the seam lengthwise, scrape the adhesive in the other direction (perpendicular). This will help prevent having too much adhesive in the seam. Allow the adhesive to tack up prior to laying down the resilient sheets.



Lay one sheet into the adhesive. Roll the edge of the sheet vinyl with a hand floor roller.



Working from the center of the seam, carefully position the second piece of resilient into alignment.

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You can stretch or compress the material by using the handle of a screwdriver to bring the pattern into match. Use masking tape to hold the pattern in place on one side of the screwdriver.



Take the screwdriver out of the seam and begin to work the seam with your hands to correctly position the design elements.



Roll the seam with a hand roller. Leave the masking tape in place to secure the seam while fitting and fastening the perimeter of the material. Also leave the masking tape in place for a minimum of one hour to allow the adhesive to set. Remove the tape just prior to seam sealing.



Thoroughly clean the seam cut of all adhesives, dirt, etc., before sealing the seam. It is also important to thoroughly remove any residue on the face of the material caused by the tape. Seal all seams with appropriate Mannington seam sealer (see pages 25 and 27 for directions). When inserting the VST applicator tip into the seam cut it is crucial the seam sealer be applied the full depth of the cut.

## Fastening Perimiflex Products

The Perimiflex Installation System only requires fastening the perimeter of the material. This allows the material to contract and bridge many underfloor irregularities, and to remain tight and flat to provide a smooth appearance.

### Staples

When the underfloor is wood, staples are the preferred fasteners. Staples should have at least a 1/2" crown and be of sufficient length to secure material to the underfloor. Staple length should be the longest that can be fully seated (3/8" to 1/2"). Space staples every 2" around the perimeter. If the job requires a combination of staples and adhesives, complete the adhesive areas first. Position all staples close enough to the wall so they can be covered by a restrictive molding (e.g., quarter round, shoe molding, rubber/vinyl cove base, etc.).

## Adhesive Recommendations and Application

The Perimiflex Installation System makes use of one type of adhesive: V-61 Adhesive

- V-61 is a water-based, latex adhesive for use over porous and nonporous floors, any approved suspended wood underlayments, concrete underfloors, and existing resilient floors that are free of all foreign matter and meet the requirements outlined in the General Guidelines section.
- Clean fresh adhesive smears with a damp cloth. Dried adhesive can be removed with mineral spirits.
- Do not allow the adhesive to freeze.
- Maximum coverage per quart for V-61 is 110 lineal feet (33.5 m) in a 3" wide (7.6 cm) band.

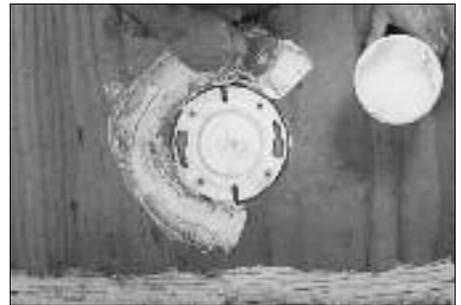
### Adhesive Application

The entire underfloor should be thoroughly cleaned prior to installation. Remove all dust, dirt, dressings, or waxes that will prevent good adhesive bond. Thoroughly strip existing resilient floors using a solution of ammonia and water or a floor stripper. Apply V-61 adhesive in a 3" wide band around the perimeter of the room, and around any pipes, fixtures, or floor registers, using the appropriate size notched spreader.

Do not apply excessive adhesive.

At all seams, apply adhesive in a 6" wide band centered on the seams. Adhesive spread must be uniform and consistent, with no skips or misses.

Provide tack or open time when using V-61 adhesive. Open time is always dictated by underfloor porosity and atmospheric conditions. Do not allow the adhesive to "skin over" before laying the material into the adhesive. As with full-spread installations, you must roll the material into the adhesive.



### Flash Coving Perimiflex Products

You may flash cove all Mannington products using the Perimiflex Installation System with traditional flash coving techniques. Follow the general steps outlined on pages 41-42.

To avoid any sharp bends or creases in the material, Mannington recommends using a wooden cove stick at the floor/wall line to support the resilient. You must securely fasten the cove stick to the wall and/or underfloor so it will not pull loose when the Perimiflex material contracts. The adhesive should be fully spread on both the cove stick and the wall, using a small brush to ensure thin, uniform coverage.

We achieve best results when using pattern scribing techniques to fit the material. It is important that the Perimiflex materials are rolled face out until ready to transcribe the pattern. You must transcribe the pattern and cut, fit, and fasten the material into the work area within two hours. It is important to transcribe the material at the same temperature as the job site.

To fill outside corners when flash coving, you can achieve the best results by using boot-type plugs. Seal all inside and outside corners with the appropriate Mannington seam sealer. You may apply seam sealer to inside and outside corners using a cotton swab.

### Finishing & Maintenance

Cover all exposed edges using a restrictive molding such as cove base, wood moldings, or quarter round. Apply a bead of silicone or latex caulk around bathtubs, shower stalls, and toilets. Leave Mannington maintenance and warranty literature with the customer. These are available from your Mannington Distributor.



**NOTE:** It is important to install the flooring as flat as possible before leaving the job site. This is best done by using a soft bristle pushbroom or a lightweight roller. You may also apply hand pressure to smooth out the flooring before fastening. Although most Perimiflex-backed products will be flat and tight within 24 to 48 hours, do not rely on the product's contractibility to compensate for installation-related buckles.

### Repairs

#### Small Cuts

Small cuts will eventually gap open. To repair, clean and compress the material. When the cut is closed, place paper masking tape around the area. Clean dirt from the cut and apply seam sealer. Remove masking tape after 24 hours.

#### Replacing Damaged Areas – Plugs

If you must replace a damaged area, follow these steps:

- Select a design element from the scrap material that matches the design to be removed from the existing resilient.
- Place wide masking tape around the damaged area to hold the floor from pulling back too much.
- Cut on the inside of the grout line, if possible, and remove the damaged piece. If the floor covering you are repairing is installed over existing resilient flooring, be careful not to cut too deep.
- Cut plug from scrap material.
- Lift edges of flooring and apply a band of adhesive carefully under the flooring and in patch area.
- Hold flooring up slightly with a knife or screwdriver to allow in sufficient air circulation to tack up the adhesive.
- Put the patch piece in place and tape two sides securely.
- Slightly warm the Perimiflex flooring and pull it into place until it fits to the patch. Tape securely and roll with a hand roller.
- After 1/2 hour, remove the tape one side at a time. Clean any adhesive that may have squeezed into the seam by passing the back side of a hook knife through the area.
- Apply seam sealer. Cut scrap material in 1/2" widths and place on each side of the seam. Tape over top of these "bridges" to hold material in place while the sealer dries. Do the same procedure with "bridges" on each side of the patch and leave for 24 hours.

### Repair Techniques for Buckled Perimiflex Products

Buckling or bubbling of perimeter-fastened floor coverings has many causes. The most common cause of buckling is mishandling of the material. Mishandling may occur during packaging, roll cutting, or at the time of installation. It is critical to maintain the tension in the product during all phases of handling and storage. It is also important to follow proper installation procedures during each step of the installation. This ensures the material will be flat and remain flat for the life of the floor covering. It is essential for the material to lie flat before leaving the job. Do not rely on the product's contractibility to overcome any fullness or compression-type buckles that are evident when finishing the installation.

If a perimeter-fastened product does buckle or bubble after installation, use the repair techniques below:

- Release the material from the underfloor. Start in an area where you can easily get under the edge of the material (e.g., doorway, corner, etc.). Gently lift the material and insert a dull putty knife under the material. Work the putty knife back and forth at the adhesive line while gently lifting the material edge. Do not exert excessive force on the material. This technique works rather easily on concrete or existing resilient floors. In case of wood panel underlayments, use caution to avoid delamination of the underlayment. Applying heat to the material with a heat gun or hair dryer may make this removal procedure easier. Exercise caution to avoid scorching the face of the resilient sheet.
- Release as much of the product as necessary in the area of the room where most of the buckles occur. Use a soft-bristle pushbroom or a lightweight roller to push the fullness out toward the wall. Retrim the material at the wall line so it lies flat.
- Reapply Mannington V-61 adhesive. Give the adhesive sufficient open time to develop good initial tack. Open time is always determined by underfloor porosity and atmospheric conditions. Typically, the open time will be 10 to 15 minutes. Roll the flooring to ensure good adhesive bond. If you are using staples, space them every 2" around the perimeter. Be certain they are of sufficient length to penetrate the underfloor.

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**NOTE: Use staples only in areas where restrictive moldings will cover them.**

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## Resilient Installation Techniques

### Freehand Knifing

All Mannington Residential Resilient products can be fit using the freehand knifing technique. Freehand knifing is accomplished by fitting the material to the room with about 2" of the product lapped up the wall. Avoid using this technique with inlaid resilient products because if they are folded they may break and crack.



Using a sharp knife held parallel to the wall, trim away the excess material until the product is flat on the floor. Hold your cutting hand so the palm faces the wall and is out in front of you within your comfort zone. Ride the knife point at the juncture of the floor and the wall. Make sure the knife blade is flexible enough to allow some pressure to be applied to it. Hook knives and Ward type knives work well, but utility and Airway type knives do not.



Make outside relief cuts with the floor covering held back from the corner. Cut the material from the face. You can use a pattern design line as a guide to ensure there will be sufficient material to fall around the corner.



Make inside and outside corner relief cuts before trimming walls. When making any relief cuts, make them all to one side of the room first. If you need to shift floor covering, you can shift it into the cuts. If you make relief cuts on both sides of the room, when you shift the floor covering you will be short of material on one side or the other.



Cut a "V" when making inside relief cuts. Use your left hand to find the corner with your thumb and forefinger. Place them over floor covering into corner about 2" up the wall. Make outside relief cuts with the floor covering held back from the corner. Cut the material from the face.

# Residential Resilient Installation Guide (continued)

## Pattern Scribing

Pattern scribing can make installing resilient flooring in those “impossible” areas much easier. By carefully making a template of the room and then removing all excess material, you can turn a difficult job into an easy, perfectly installed floor. Follow the steps below.

When using multiple pieces of scribing paper, carefully butt the sheets together and draw reference lines across both sheets for proper alignment later. Using a roofing square or pencil dividers, transfer the outline of the area being scribed onto the scribing paper. If you’re using both a square and dividers, set the width of the dividers to match the width of the leg of the square to minimize mistakes. We advise making lots of notes on the paper.



After all preparation is complete, place scribing paper on the area to be covered. Place the roll-set (curl) downward to make paper positioning easier.



Cut windows in the paper to expose the subfloor and then use masking tape to hold the paper in place. Paper should be rough-trimmed using a utility knife to 1" from all obstructions.



Pencil dividers make it easier to scribe irregular-shaped obstacles. Keep the dividers at a 90° angle to the item being scribed in order to keep the scribe accurate.



After you have transcribed the entire area to the paper, carefully remove the pattern and place it on the resilient floor covering to be used. Take the time to square the pattern to the resilient floor covering using a tape measure or ruler and be sure to center the pattern.



Using the same roofing square or dividers, transfer the marks on the pattern to the sheet goods, making a perfect duplicate of the floor. Be sure to keep the dividers set to the same measurement you started with and use the same leg of the square you used to make the pattern. To ensure correct pattern transfer, the person who performed the pattern scribing should also transfer the pattern onto the resilient flooring.



Follow the pencil marks on the surface of the resilient with a knife or scissors. Use caution so you don't damage the underfloor you're working over. A hookblade utility knife may make this easier.



Now that the transfer and cutout are complete, the material is ready to be installed. The floor covering is an exact duplicate of the floor, with all excess material removed and all cuts made for possible obstacles. Place the material into the room and fasten as required.

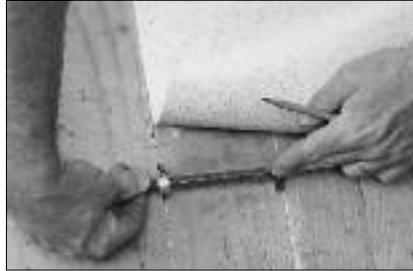
# Residential Resilient Installation Guide (continued)

## Direct Scribing

Direct scribing, also known as three-wall scribing, can be used with all Mannington products. Generally this fitting technique is used when the installation area is not complicated.



When installing 6' wide resilient flooring, snap a chalk line 6" off the wall. Also, make two additional reference marks in the center of that area. Snap a chalk line marking the center of the sheet on the floor and mark that same distance with a piece of tape on the wall.



Position material squarely in room with about 2" flashed up each end of wall. Material should be positioned against the long wall overlapping the 6" reference line. Trace the edge of the sheet with a pencil marking onto the subfloor. Set dividers, or bar scriber if you need to transcribe deeper offsets, to the distance between the edge of material (pencil mark) and reference line.



Scribe the contour of the long wall to the resilient flooring with the set bar scriber.



Cut resilient flooring with a hookblade knife along the scribed line.



Slide the resilient flooring to the wall. The sheet should now be positioned on the 6" reference line and next to the long wall.



Now fit the two remaining walls, which we will name Wall A and Wall B. Make a reference mark (key mark) at the edge of the resilient sheet extending onto the subfloor with a pencil. Place a piece of tape on the long wall (the opposite edge of the sheet), visually aligning it to the pencil mark you just made on the resilient and subfloor. You will now have a reference mark on the right side of the sheet and a reference mark on the left side.



Slide the flashing sheet away from the wall (Wall A) until it lies flat on the floor and against the wall. Go back to the key mark you made on the resilient and subfloor and you will notice the mark is no longer in alignment. Set your bar scriber or dividers to that difference.



Slide the resilient flooring to the wall. The sheet should now be positioned on the 6" reference line and next to the long wall.



Shift the sheet back on the key marks. When the key marks are aligned, the material will fit next to Wall A. Repeat the process for the opposite wall, Wall B.

With the dividers properly set, go back to Wall A and scribe the contour of the wall to the material. Cut the material along the scribed line.

## Flash Coving Resilient Sheet Products

All Mannington Resilient sheet goods can be installed using the flash coving method. This edging technique, often preferred by hospitals and other healthcare facilities, is a process of extending the resilient flooring up the wall to create a wall base. Normally, the floor covering is extended up the wall to a height of 4" to 6". Coving is popular with end-users because it eliminates the need for a floor/wall juncture and it is also easy to maintain. As with all resilient installations, proper preparation of the work area is critical to the success of the installation. Clean the underfloor carefully and make certain it is structurally sound. The juncture of the floor and wall also needs special preparation before beginning a coved installation. Follow the instructions below to install the cove cap and the cove stick (cove fillet strip).



Measure desired height for the cove caps at each corner and strike a chalk line. Attach aluminum or vinyl cove caps at this height using flathead nails with a hammer or brad pusher, or use contact cement. Always miter inside and outside corners in the cap. When mitering the outside corners, file the ends of the cap smooth. You can use a specially designed miter tool with interchangeable die sets to make corners on the cove cap. This tool eliminates sharp edges at the outside corners.



Cove stick supports the resilient flooring as it is flashed up the wall, eliminating the chance of puncturing the resilient flooring. Firmly secure plastic or wood cove sticks where the floor meets the wall with adhesive or nails. Use nonstaining nails and set them flush with the stick. The stick should have a minimum radius of 1-1/8" and be precisely mitered at all inside and outside corners. Provide a smooth transition in the door casings and other areas where the coving ends by cutting back the cove stick.



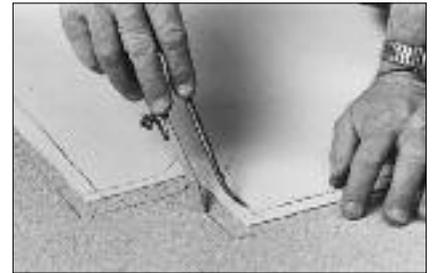
Tack the scribing felt to the wall with brad type nails before you begin to scribe it. Use a combination square, a small metal ruler, or a 1" piece of resilient to pattern scribe the felt. Fit the scribing tool up inside the cove cap and scribe the felt by sliding the tool along the cap as you mark the felt with a pencil.



Scribe and cut the outside corners of the felt using a utility knife.



Scribe the inside corners of the felt using pencil dividers.



After scribing the entire work area, position sheet flooring and transcribe the pattern with pencil dividers. Be careful when cutting the material on the inside and outside corners.



Dry fit the material. Inside corners should fit snugly, but not be forced into position. Make sure to always position the shorter side first and then the longer side. Gently pull the material away from the wall.

## Residential Resilient Installation Guide (continued)

Apply the appropriate adhesive to the floor, wall, cove cap, and cove stick. Allow the appropriate amount of open time. Fit the material back into place. Remember to always position the shorter side first. Roll the flooring with the appropriate size roller (use a hand roller on coved areas). Apply the appropriate seam sealer at all seams, following the recommended directions for the resilient floor you are installing.



*The most demanding aspect of a coved installation is forming the outside corners. Fill outside corners with a boot-type plug, rather than a V-type plug, on the least visible wall. The plugged corner fill piece should extend back at least several inches from the corner. The seam of the floor should be below the cove stick. Using an underscriber, scribe the back of the plug at the corner. This will mark the pattern of the corner on the plug.*



*Cut along the scribed line at a 45° angle with a curved trim knife or a utility blade while holding the plug steady with a metal ruler and your other hand. When cutting, leave the face of the plug longer than the back.*



*Check the fill piece for accurate fit. Make any minor adjustments to the plug as necessary to fill the space correctly. Remove the fitted fill piece and apply the appropriate adhesive. Reposition the fill piece and apply seam sealer.*

## 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:

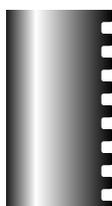
- Easy application
- VOC-compliant/solvent-free/low odor
- Non flammable
- Moisture- and alkali-resistant
- Readily identifiable mylar chips
- Contains fungicide protection
- Complies with SCAQMD Rule 1168

#### 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.

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.

**Nonporous Substrate**  

 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 m<sup>2</sup>/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 m<sup>2</sup>/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 Mixture . . . . .Up to  $\frac{1}{4}$ " (6 mm)  
(3 parts water/1 part MVP-2023 Additive)

Full Strength . . . . .Up 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 <sup>2</sup> )	20 - 28 sq ft (1.8 - 2.6 m <sup>2</sup> )
25 lbs (11.3 kg)	100-140 sq ft (9.3 - 13.0 m <sup>2</sup> )	50 - 70 sq ft (4.6 - 6.5 m <sup>2</sup> )

## 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.