

**GENERAL
INFORMATION**

All recommendations are based on the most recent available information. These installation specifications are for fully adhered installations of Mannington Commercial heterogeneous products, Momentum and Realities.

1. Cut order pieces should be rolled face out on a core to take to the job site. Otherwise, the roll will flatten or “oval”, making it difficult to get the floor covering to lay flat when unrolled.
2. The floor covering, adhesive, and room temperature must be kept at a minimum temperature of 65°F with a maximum of 90°F for at least 48 hours before and during, and 48 hours after installation.
3. All subfloor patching on and below grade must be done with a non-shrinking, water-resistant Portland cement patching compound such as Mannington MVP-2023.
4. Never install Mannington sheet goods over residual asphalt-type (cut back) adhesive. It can bleed through the new floor covering. Residual asphalt type adhesive must be removed or isolated from the finished flooring by providing a mechanical barrier, such as Mannington MVP-2023.
5. Mannington Commercial heterogeneous vinyl products should only be installed on properly prepared concrete substrates. (See concrete section below). Do not install these products on wood panel underfloors.
6. Mannington Commercial heterogeneous products must be fully adhered using Mannington V-82 on porous substrates. Use Mannington Commercial high performance V-85 two part polyurethane adhesives on non-porous substrates or in areas that require high performance adhesives (i.e. under hospital beds, exceptional high traffic areas).
7. All seams must be sealed by either using Mannington Commercial MCS 42 chemical seam sealer or heat welded with Mannington solid color weld rod.

**SUBFLOOR
INFORMATION**

Careful and correct preparation of the subfloor is a major part of a satisfactory sheet vinyl floor covering installation. Roughness or unevenness of the subfloor will telegraph through the new floor covering, resulting in an unsightly surface and excessive wear on high spots. Proper subfloor selection and preparation are essential for a trouble-free job.

WOOD SUBFLOORS

Mannington commercial heterogeneous products should not be installed over wood panel subfloors.

CONCRETE SUBFLOORS

1. 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.
2. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured. Curing agents, surface hardeners and other additives may cause adhesive bonding failure. These should be removed by sanding or grinding.
3. All concrete slabs must be checked for moisture before installing material. Follow ASTM F-1869 recommendations for performing calcium chloride test. Alternate Test F-2170 with a relative humidity level of 75% maximum.
4. Mannington sheet vinyl floor covering must never be installed where hydrostatic pressure or excessive moisture vapor emissions may exist. Moisture emission from subfloor cannot exceed 3 lbs. per 1,000 sq. ft. per 24 hours. Mannington will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission that exceed the levels stated above.

CONCRETE SUBFLOORS

5. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.
6. Concrete floors with a radiant heating system are satisfactory, provided the temperature of the floor does not exceed 90°F at any point.
7. Holes, grooves, and other depressions must be filled with Mannington MVP-2023 patching and leveling compound, (or equivalent) and troweled smooth and feathered even with the surrounding surface.

EXISTING RESILIENT FLOOR COVERINGS

To achieve maximum product performance, Mannington Commercial heterogeneous sheet vinyl 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 or other appropriate porous underlayment.

NOTE: Consult Mannington's Commercial Installation Guide or the Recommended Work Practices brochure from the Resilient Floor Covering Institute for specific instructions on removal of old resilient floor covering.

WARNING: Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic "cutback" adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content. The Resilient Floor Covering Institute (RFCI) document "Recommended Work Practices for Removal of Resilient Floor Coverings" should be consulted for a defined set of instructions addressed to the task of removing all resilient floor covering structures. For more information, visit the Resilient Floor Covering Institute at www.rfci.com.

INSTALLATION**Cutting and Fitting**

- It is imperative that the material, adhesive and job site be maintained at a minimum temperature of 65°F or a maximum of 90°F. 48 hours before, during and 48 hours after installation.
- If the material has been stored at colder temperatures, it will be necessary to unroll the material and allow it to relax over night before proceeding with the installation.
- If the job site is complex and requires a precise fit, traditional pattern scribing techniques should be used.
- The material may also be fit using direct scribing techniques. Once the material has been fit, it will be necessary to tube or lap half of the sheet back to expose the underfloor for adhesive application.
- Care should be taken when folding the material back. Always fold the material in a wide radius to avoid sharp kinks and creases which may cause breaks in the product.

ADHESIVE APPLICATION

After the material has been trimmed to fit the room, it should be tubed or lapped back to expose the underfloor.

- On porous substrates, V-82 adhesive should be applied with a 1/16" wide, 1/32" deep spaced 1/32" apart notched trowel.
- V-85 two-component urethane adhesive must be used on all non-porous substrates and in areas demanding high performance. Follow all directions on adhesive container. V-85 has low initial tack, it may be necessary to apply weights, particularly in the seam area, until adhesive sets. V-85 should be applied with a 1/16" wide, 1/32" deep, spaced 1/32" apart notched trowel.

ADHESIVE APPLICATION

- The adhesive must be spread over 100% of the exposed subfloor, leaving no gaps or puddles. Uniform coverage can be maintained by keeping the trowel clean and properly notched.
- After the adhesive has been applied, roll the sheet forward into the adhesive to eliminate trapping air.
- Do not drop or flop the material into the adhesive.
- Roll the floor covering with a three-section 100 lb. or heavier floor roller in both directions.
- After the first half of the sheet has been adhered and rolled, fold back the second half and repeat the procedure.
- When using V-85, the flooring should be rolled with a 100 lb. floor roller within one hour after the flooring is installed.
- Wait 1–2 hours then re-roll again to insure full contact and to remove any trapped air.

CAUTION: When providing open time, do not permit the adhesive to “skin” over or dry. Too much open time will result in insufficient bonding.

SEAMING

Mannington Commercial heterogeneous sheet vinyl is available in 6’, 9’ and 12’ widths. Choose product width to eliminate unnecessary seams and minimize waste. When seaming is required with Mannington Commercial heterogeneous sheet flooring, the materials should be positioned Reverse Sheets for seaming.

The construction of heterogeneous flooring requires that the seams be cut using the **trace cutting technique**.

- The selvage edge of one sheet should be straight-edged approximately 3/8” from the edge.
- Position the sheets in such a manner that the straight-edged top sheet will overlap the untrimmed bottom sheet and maintain the pattern match.
- Carefully trace along the edge of the top sheet with a utility knife with a sharp blade or a cutting tool designed for this purpose.
- Remove the trimmed selvage edge of the bottom sheet.
- Once the seams are cut, weigh the sheets and tube or lap back the sheets to expose the underfloor.
- Apply the appropriate Mannington adhesive using the correctly notched trowel over 100% of the exposed underfloor.
- After providing sufficient open time for the adhesive, lay the straight-edged sheet into the adhesive first and then lay in the second sheet.
- Roll the adhered areas to within about 6” of the seam line with a 100 lb. three-section floor roller.
- Roll the seam area with a hand seam roller to bring the seam edges level. Re-roll the entire adhered area with the 100 lb. floor roller.
- Thoroughly clean the seam area and wipe dry.

**HEAT WELDING
HETEROGENEOUS
FLOORING**

- Seams may be heat welded using coordinating solid color weld rod.
- Wait at least 24 hours after initial installation to allow the adhesive to cure before grooving the sheet vinyl to receive the heat weld rod.
- Proper temperature of the heat welding tool is critical to the success of this process. Heat welding is always dependent on speed of application and temperature. Practice on a scrap piece of material to determine optimum speed and temperature.
- After the weld rod has cooled, trim the applied weld rod in two steps. Always use a trim plate with a sharp spatula trim knife for the first pass. Trim weld rod flush with the spatula knife, being careful to not gouge the vinyl surface.

**HEAT WELDING
HETEROGENEOUS
FLOORING**

- Mannington Commercial Heat Weld Rod is color coordinated for use with Mannington Commercial heterogeneous sheet flooring. Contrasting colors may be used if so desired.

**CHEMICAL SEAM
SEALING****Heterogeneous Flooring**

Seams in Mannington Commercial Heterogeneous Flooring may be sealed using the chemical seam sealing method.

- The seams will be sealed with MCS 42 and the VST-96 professional applicator tip.
- Before sealing the seams, make certain all seams are clean, dry and free of adhesive contamination.
- Fill the VST-96 applicator bottle at least 2/3 full of sealer. Tightly screw on the applicator tip.
- Before using, check the flow through the applicator on a scrap piece of flooring.
- Insert the fin into the seam cut and 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 penetrates the full thickness of the seam cut to insure a proper chemical bond.
- Do not wipe the sealer from the surface of the heterogeneous flooring.

**FLASH COVING
MANNINGTON
COMMERCIAL SHEET
FLOORING**

All Mannington Commercial Sheet flooring can be integrally self or flash coved at the wall line. Flash coving is the procedure in which the flooring material is continued up the wall to the height of 4 or 6 inches. This coving technique eliminates the floor-wall juncture and provides for easy maintenance.

When flash coving is required, follow these recommendations:

- Prepare the area by installing a cove fillet strip and a cove cap (either aluminum or vinyl).
- The cap should be firmly attached to the wall at the designated height. Outside corners in the cap should be notched and formed rather than mitered. This eliminates a sharp edge at the corner.
- Cove fillet strip is available in both plastic and wood. The fillet strip should have a minimum 1 1/8" radius.
- The cove stick should be precisely mitered at all inside and outside corners and firmly secured into the floor or the wall.
- Best results can be obtained by pattern or template scribing Mannington Commercial Sheet flooring when flash coving is required. Traditional pattern scribing techniques should be followed.
- Inside corners should be cut net, with no fullness or gaps. Outside corners must be filled using "boot" plugs. Preformed metal corner caps may also be used.

FINISHING THE JOB

- Cover all exposed edges.
- Use wood molding or vinyl cove base along all walls, cabinet toekicks, etc.
- Use metal 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 heterogeneous flooring products.

**CAUTIONS AND
MISCELLANEOUS**

- A. Do not place heavy items on newly installed floor covering for at least 48 hours after completion of the installation. Heavy furniture should be equipped with suitable non-staining, wide-bearing casters.
- B. Furniture should be moved onto the newly installed floor using an appliance handtruck over hard board runways.
- C. Floor covering subjected to excessive heat and light exposure is subject to thermal degradation. Use appropriate precautions to minimize potential affects on the floor covering.
- D. 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.
- E. Use non-staining walk-off mats at building entrances to remove excess dirt and grit from foot traf fic—rubber can discolor vinyl floor covering.