

**GENERAL
INFORMATION**

Mannington Assurance II Modular is available in an 18" x 18" (457.2 mm x 457.2 mm) tile format that is 1/8" gauge. This modular format features unsurpassed dimensional stability by employing a non-woven fiberglass stabilizer in the inner-core and a vinyl backing that utilizes recycled vinyl content.

These installation specifications are for all fully adhered installations of Mannington Assurance II Modular slip resistant tile.

All recommendations are based on the most recent available information.

1. The floor covering, adhesive and room temperature must be kept at a minimum temperature of 65°F or warmer for at least 48 hours before, during, and 48 hours after installation. Jobsite temperature should not exceed 95° F.
2. Install Mannington Assurance II Modular Tile only after the job site has been cleaned and cleared of other trade apparatus that may damage a finished tile installation.
3. Always check the cartons to assure the pattern number is correct and that the shade and lot numbers are the same on all cartons. To minimize shade variation, mix tiles from several different cartons and then install them.
4. All on and below-grade subfloor / underlayment patching must be done with a non-shrinking, water-resistant Portland cement patching compound such as Mannington MVP-2023.
5. Never install Mannington resilient products over residual asphalt-type (cut back) adhesive, because the adhesive can bleed through the new floor covering. Residual asphalt type adhesive must be covered with underlayment plywood or Mannington latex underlayment.

Mannington Assurance II Modular tiles must be adhered with Mannington MT-711 Pressure Sensitive adhesive. Use Mannington V-85 solvent-free, two-component urethane adhesives when installing in areas subject to receive excessive topical moisture or areas subject to standing water, (i.e. entryways, around spas or saunas, around any floor drains, on ramps or where heavy rolling loads are expected).

**SUBFLOOR
INFORMATION**

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

Follow all guidelines and recommendations regarding underfloor selection and preparation. All concrete underfloors must be tested for moisture. Permissible moisture vapor emissions for Mannington Assurance II Modular Tile is 5 lbs. per 1000 sq. ft. when measured with the calcium chloride test. Follow ASTM F-1869 recommendations for performing calcium chloride tests. Alternate Test: ASTM F-2170 with a relative humidity level of 75% maximum.

CAUTION

It is extremely important that a solid substrate is provided in order to take full advantage of the high performance properties of Mannington Assurance II Modular Tile. The performance properties of commercial floor coverings are compromised when installed over an existing resilient product. There may be times when the removal of existing flooring is not practical or prudent, if a flooring installer elects to install Mannington Assurance II Modular over an existing resilient floor covering, he assumes ALL responsibilities as to the suitability and continued performance of that existing flooring.

If removal of existing resilient floor covering is required follow all recommended Resilient Covering Floor Institute (RCFI) work practices at www.rcfi.com.

WARNING

Do not sand, dry sweep, dry scrape, drill, saw, beadblast, 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
MODULAR TILE LAYOUT**

As with all tile formats, Mannington Assurance II Modular Tiles should be “balanced” in the work area. Tiles may be laid squarely or 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. All border tiles should be of equal dimensions. Careful and precise measurements must be taken during tile layout. Lay all tiles in the same direction, with all directional indicators pointing in the same direction.

**ADHESIVE
REQUIREMENTS,
RECOMMENDATIONS
& APPLICATION**

Adhesive	Product
MT-711	Mannington Assurance II Modular 18” x 18” tiles

V-85 Adhesive Mannington Assurance II* Modular products when installing over approved non-porous substrates or in any areas requiring a high-performance adhesive.

* Mannington Assurance II slip-retardant sheet flooring is the only Mannington Commercial product that is specifically designed for use in areas subject to standing water and topical moisture (i.e., entry ways, around floor drains, spas or saunas, or on ramps where heavy rolling loads are expected). In these areas, Mannington V-85 adhesive must be used to adhere Mannington Assurance II. Follow all recommendations and cautions for V-85 adhesive listed in the Mannington Professional Installation Guide.

**MANNINGTON
MT-711**

To take full advantage of the benefits of modular construction, MT-711 Pressure Sensitive Vinyl Back adhesive is recommended as the primary adhesive for use with Mannington Assurance II Modular.

- MT-711 is a high performance, solvent-free acrylic based adhesive that was designed for modular carpet installation.
- It is a nonflammable, anti-microbial adhesive with zero calculated VOCs.
- MT-711 has a history of proven success with modular carpet construction and provides these same benefits for Mannington Assurance II Modular.
- **For best results and a long lasting bond: Do not allow the MT-711 adhesive to dry completely. Adhesive must be “tacky” enough to transfer to the modular backing.**
- **Not recommended for areas where there is standing water or topical moisture.**

**MANNINGTON
V-85**

V-85 two-component urethane adhesive must be used with Mannington Assurance II Modular Tile in areas where standing water is prevalent. Follow all directions on adhesive container.

- V-85 has low initial tack; it may be necessary to apply weights until adhesive sets.
- V-85 should be applied with a 1/16" wide, 1/32" deep, spaced 1/32" apart notched trowel.
- 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.
- 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.

Whether using MT-711 or V-85, before installing the tiles allow the adhesive to develop tack and dry. Humidity and subfloor porosity always dictate open time of the adhesive. Set tiles firmly against adjoining tiles and press into adhesive. Do not slide tiles into position. No matter which adhesive is chosen, all instructions for proper application, including proper trowel notch, must be strictly followed.

We no longer recommend V-11 Vinyl Composition Tile Adhesive for use with Mannington Assurance II Modular Tile.

**MODULAR TILE
INSTALLATION**

- After the adhesive has developed sufficient tack, 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, with all directional indicators pointing in the same direction. The indicators are located clearly on the back of the tile.

**CUTTING AND FITTING
BORDER TILES**

Mannington Assurance II Modular tile 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.

NOTE: Mannington Assurance II Modular tile can not be heat-welded. Heat-welding is the preferred method for seaming homogeneous sheet products.

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 Mannington Assurance II. Mannington Professional Installation Guide.

**CAUTIONS AND
MISCELLANEOUS**

1. Furniture should be moved onto the newly installed floor using an appliance hand-truck over hard board runways.
2. 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.
3. 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.
4. 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.
5. Use non-staining walk off mats. Rubber can discolor floor covering.

NOTE: For additional installation Instructions on Mannington Assurance II Modular tile, refer to Mannington Professional Installation Guide.