

INSTALLATION PROCEDURES FOR MANNINGTON'S INFINITY AND INFINITY RE MODULAR CARPET TILE WITH M-GUARD 718 MOISTURE RESISTANT ADHESIVE

**MAKE SURE YOU INSPECT CARPET MODULES PRIOR TO INSTALLATION.
NO CLAIMS WILL BE HONORED IF MODULES ARE INSTALLED WITH VISIBLE DEFECTS.
READ ALL INSTRUCTIONS PRIOR TO BEGINNING INSTALLATION.**

DESCRIPTION

Mannington M-Guard 718 Ultra Premium Carpet Tile Adhesive is a high-solids ultra premium acrylic pressure sensitive commercial carpet adhesive. This product has been especially developed to address problems of moisture vapor emissions in concrete slabs that are to receive Mannington's Infinity modular and 6ft backing system. M-Guard 718 adhesive and Mannington's Infinity backing can be used over concrete substrates with moisture vapor emission rates of up to 8 pounds per ASTM 1869 without any additional moisture vapor remediation. M-Guard 718 is not recommended for concrete slabs where hydrostatic pressure or renewable moisture source exists.

LIMITATIONS

DO NOT USE THIS ADHESIVE WITH LATEX OR POLYURETHANE BACKED CARPET. M-Guard 718 is solvent free; low in VOC's and exhibits a very aggressive water resistant bond that ages exceptionally well, allowing Mannington to offer a lifetime bond warranty under normal use. M-Guard 718 contains a proprietary blend of biocides that protect the adhesive in both the wet state and dry state, from attack by mold, mildew, and bacteria.

SITE AND MODULAR MATERIAL CONDITIONING

The carpet is to acclimate to at least 65° for 24 hours prior to installation. Floor temperature can usually vary 5-10° lower than room temperature. Modules must be conditioned to room temperature for 24 hours prior to installation. Relative humidity must be between 12% - 65% maximum for 24 hours prior to installation. These conditions must also be maintained for 48 hours after completion of installation.

SURFACE PREPARATION

Dust, dirt, debris, and noncompatible adhesive must be removed before installation begins. Existing adhesives must be totally removed for M-Guard 718 to bond properly with the concrete, this will require shot or bead blasting to remove the old adhesives and have a suitable surface for bonding.

MOISTURE TESTING

Subfloor surfaces must be tested for moisture content. It is the responsibility of the general contractor to perform moisture test prior to starting the installation. MANNINGTON recommends calcium chloride tests be performed to detect the presence of moisture. Acceptable results require that moisture content does not exceed 8 lbs. Per 1,000 square feet per 24 hours. Contact Technical Services for recommendations for readings over 8 lbs. Mannington will also accept the Relative Humidity ASTM-F-2170 test method. Acceptable moisture levels are 85% maximum relative humidity. Alkalinity must have a maximum Ph level of 10 or less. Contact Technical Services for corrective measures for substrates that test over 10 Ph. **Note:** Moisture emissions in excess of the recommended levels can cause the adhesive to chemically break down and fail. This condition can result in shifting, bucking, or edge curling of the modules.

RECOMMENDED SUBSTRATES

Concrete (on, above and below grade), cement terrazzo, patching compounds, self leveling compound, light weight concrete, and gypcrete. Light weight concrete and gypcrete must be sealed with primer/sealer before installation, regardless of MVE rates. All slabs on or below grade must have a functioning vapor barrier directly under the concrete slab. The vapor barrier must always be on top of the capillary break.

RECOMMENDED TROWEL AND APPROXIMATE COVERAGE

1/16 X 1/32 X 1/32 "U" notched trowel up to 200 square feet per gallon for carpet tile over non-porous surfaces

1/16 x 1/16 x 1/16 square trowel up to 150 square feet per gallon for carpet tile over porous surfaces

Short Nap Roller is to be used to spread the adhesive after it has been applied with the proper trowel.

DIRECTIONS

Surface Preparation: For best results, the room, floor covering, and adhesive should be a minimum of 70°F for 24 hours before and 48 hours after installation. Area to be covered must be clean, sound, dry and free of any foreign matter that would interfere with a solid bond. Level any high spots, and fill all cracks, holes and minor depressions with a suitable underlayment or floor patch, otherwise irregularities can “telegraph” through the new surface.

Application: M-Guard 718 is specifically designed to install Mannington’s Infinity modular and 6ft. backings over cementitious substrates with moisture vapor emissions up to six pounds. M-Guard acts as an adhesive as well as a moisture vapor emission reducer. M-Guard 718 **MUST BE TROWELED** on and then **ROLLED** with a short nap roller (pre wet the roller with adhesive before rolling begins). The trowel acts as a meter to ensure the proper amount of adhesive is used, and the roller spreads the adhesive to make a consistent film over the surface of the substrate. Tile placement can begin after adhesive dries, usually 15-45 minutes.

WARNING! Do not sand, scrape, abrade, chip, pulverize, or demolish existing resilient tile, sheet flooring, backing, lining felt, adhesive, or adhesive residue. These products may contain asbestos fibers that are not readily identifiable. Avoid creating dust. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. If old floors must be removed, consult and follow the recommended work practices of the resilient flooring manufacturers

MEASUREMENTS

Measure area to be carpeted to determine best starting positions. Chalk two lines that intersect these positions at right angles. Proper planning should avoid trimming perimeter tiles more than ½ their width (12 inches for 24" x 24" tiles).

TILE PLACEMENT

Starting in the corner of one quadrant, install tiles in a pyramid fashion. Install by butting edges together evenly, being careful not to compress modules (this can cause peaked edges). Arrows are embossed or printed on the module backing to show pile direction. Unless instructions are stated for quarter turn installation, always lay tile with the arrows in the same direction. To ensure proper alignment, check spacing every eight modules. Measure eight 24-inch modules for a total of 192 inches; proper spacing should be within ¼ inch. Continue to check spacing every eight modules throughout the entire installation.

PALLET AND BOX SEQUENCING

It is very important to install MANNINGTON Modular tiles in the order they were manufactured; this is easily accomplished by selecting pallets in sequential order and following the numbers located on each carton of tiles. Typically an installation will begin with the lowest carton numbers and progress through the highest numbers until project is complete. Installing MANNINGTON Modular tiles by carton sequence will assure the most even uniform look possible.

CUTTING / TRIMMING

Carpet modules will require cutting at perimeters, floor electrical outlets, and door openings. Whenever modules are cut or trimmed, adhesive must be used. Loop pile modules may require some trimming or clipping of tufts. This is typical of this type construction and is not a manufacturing problem. Small pieces of carpet tile should also have glue applied to the backing to help hold them in place.

FLATWIRE CABLE / TRENCH HEADERS

Flatwire cables are easily accessible when carpet modules are used. Cable should be centered under modules and no adhesive used unless approved by the manufacturer. Trench headers require a control grid of adhesive on either side of header panels to prevent movement.

STAIRS

Use a raised stair nosing and cut tiles to fit nosing, both step and riser. Use full spread adhesive under modules.

FINISHED INSTALLATION

When heavy furniture and wheeled traffic is moved over tiles, use plywood runner to avoid tile shifting. Roll entire job with 75-100 lb roller after completion of installation.

CHAIR PADS

Chair pads are recommended for use under chairs with roller casters. Casters should be the flat round type with 5/8" to 1" width minimum. If chair pads are not used, the appearance of the modules will decrease and maintenance and/or shifting of the modules may be required more frequently.

LOOP PILE CONSTRUCTION

Carpet modules with loop pile constructions may experience yarn blossoming at the edges, which is consistent with this type of construction. Clipping or shearing the yarn edges can remedy this condition.

TILE ARRANGEMENT

Some carpet styles require more attention from the installers during installation. Due to the light row, dark row construction of these products, dark lines may appear at the edges. **This is not a manufacturing defect.** These products will require shifting tiles around to avoid dark lines at the edges.

Quarter turn, monolithic, ashlar, brick ashlar and shuffled are some of the common tile placements. Some styles do not fit all of these installation methods, always confirm tile placement method with the customer or Mannington's architectural books.

Some carpet tile constructions are designed for shuffled installation. This type of carpet tile installation is very installer friendly because it eliminates having to locate the directional arrow on back of the tile. There is still a possibility of having to shift the tiles around to avoid dark lines at the edges.

REPLACEMENT TILES

On occasion, it may be necessary to replace damaged or heavily soiled modules. Modules can be replaced with new MANNINGTON tiles from on-site inventory or from another areas of the installation. A difference of appearance may be noticed when modules are replaced; this difference usually diminishes in a short time.

The procedures listed above are our best recommendations for installing INFINITY MODULAR (Carpet Tile) Backing. This document and other literature are available upon request. If you have further questions or require additional information, please contact our Technical Services Department at 800-241-2262 Ext. 3.