



INSTALLATION GUIDELINES

Infinity 2[®] Six-Foot

GENERAL INFORMATION

Mannington Commercial adheres to basics of the Carpet and Rug Institute's (CRI) Installation Standard, which offers general minimum requirements. In addition to the minimums from CRI, this guide provides specific detail required for Mannington Commercial products. Mannington Commercial requires site and subfloor conditions like those for any carpet. Site should be fully enclosed with an HVAC system functioning to maintain temperature within a range similar to levels maintained when occupied as explained here. Each of the following steps is essential for a successful installation and is required to maintain full warranty coverage.

All recommendations are based on the most recent available information. The information on this sheet provides general subfloor guidelines. For complete details consult Mannington Commercial's General Installation Guide or visit our website at manningtoncommercial.com. All instructions and recommendations must be followed for a satisfactory installation. Good preparation is essential for a trouble-free installation. Do not install Mannington Commercial flooring until job-site testing and subfloor preparations are finished, and the work of all other trades is complete. Site conditions must comply with relevant building codes and local, state, and national regulations.

ESSENTIAL FIRST STEPS

- **Check style and color.** Mannington Commercial requires the carpet be inspected prior to installation for proper style, color, and potential defects.
- **No visible defects.** No claims will be honored if carpets are installed with visible defects.
- **Read instructions.** Read all instructions prior to beginning installation.
- **Dye lots.** Mannington Commercial does not recommend mixing dye lots, especially in open areas that would be highly visible. Mix dye lots only, if necessary, in natural break areas where dye lot change would be less noticeable. Always get prior approval before mixing any dye lots.



- **Direct glue.** Mannington Commercial's Infinity 2 Six-Foot backings are to be installed by the direct glue method only. Stretch in over cushion and double glue down installation over pad will not be warranted.
- **Site conditions.** Maintain temperature at 60-85°F with ambient humidity between 40-60% for 48-72 hours before, during installation, and at least 48-72 hours after installation. Maintain temperature between 55-90°F for product life.
- **Material conditioning.** Carpet and adhesives must be allowed to adjust to job-site temperature for a minimum of 48 hours prior to installation.
- **Vapor retarder.** Concrete subfloors must have a suitable vapor retarder properly installed directly beneath the slab per ASTM E1745.
- **Adhesive.** Mannington's Infinity 2 pressure-sensitive adhesive must be applied in a full-spread application using the correct notched trowel as detailed later in this guide.

Important note: Mannington Commercial adhesives are specifically formulated to be fully compatible with backings chemistry and to maximize the performance of Mannington Commercial products. Using substitutes or failing to use Mannington Commercial adhesives as recommended can cut-short product life, cause installation failure, and/or lead to a chemical reaction, such as hydrolysis, which will permanently damage the tile backing and will void all applicable warranty coverage. For Mannington Commercial's lifetime limited bond warranty, the appropriate adhesive must be used. Mannington Commercial will not be responsible for adhesive bond where other adhesives have been used.

SUBFLOOR PREPARATIONS

Careful subfloor preparation is vital for an excellent floor appearance and good adhesion. The subfloor must be smooth, firm, flat, clean, dry, free from defects, and fit for purpose. A suitable smoothing compound should be used to ensure that no irregularities show through to the surface of the finished floor. In all cases, the subfloor must meet the moisture and pH requirements before installation.

For porous subfloors (concrete or wood) that have a high pH and/or need a primer, use **Mannington's Universal Primer**.

Mannington's Universal Primer is an acrylic latex solution made to neutralize excess alkali and is also recommended as a primer to prevent over absorption of adhesive to ensure a better bond. Gypsum topped or patched areas must receive a full application of Mannington's Universal Floor Primer as well as any subfloor that is porous, gritty, chalky, or dusty. Porous subfloors with chemical pH above 10 may require a second application. Mannington's Universal Primer can be applied by pouring directly on the subfloor and spreading evenly with a broom or paint roller. Primer can also be applied with a garden sprayer, airless rig, or similar spray equipment. Allow the primer to dry completely prior to second application or before applying adhesive. Primer is dry if there is no transfer when touched. Coverage is approximately 350-400 ft² per gallon.

CONCRETE

Before proceeding with installation on any concrete subfloor, please make sure:

- Levelness and finish meets or exceeds American Concrete Institute standards ACI 301.
- Moisture and alkalinity levels meet requirements as detailed earlier.

- Curing compounds are mechanically removed. Many concrete curing agents can prevent adhesives or sealers from forming a proper bond, especially those with silicate compounds.
- Chemical agents are avoided for removal of curing compounds or old adhesives.
- Portland cement-based compounds are always used and mixed according to manufacturer's instructions when patching cracks and holes, and when leveling is required.
- Gypsum-based patching compounds are always avoided.
- Mannington's Universal Primer is used on any subfloor that is porous, gritty, chalky, or dusty.

OTHER SUBFLOOR TYPES

All subfloor surfaces must be smooth, level, clean, and secure prior to installing Mannington Commercial floor covering products. To achieve maximum product performance, it is always best to remove existing floor covering and prepare the substrate before installing new products.

- **Wood.** Wood floors must be smooth and level. If floor is uneven, an approved underlayment may be required. Plywood sheets must be solid and secure. Plywood seams may need to be sanded smooth. Dust must be thoroughly vacuumed. Fire-retardant plywood is not recommended.
- **Wooden planks.** Wooden plank flooring should be covered with plywood as detailed above as stable, flat, and suitable for installation.
- **Terrazzo / Marble.** Level all grout lines with a Portland cement patching compound. Glossy surfaces must be sanded for adhesive bond.
- **VCT.** Tiles must be well secured to the floor or removed. Broken, damaged, or loose tiles must be replaced. Wax must be removed from VCT before applying adhesive.
- **Sheet vinyl.** Must be well secured, consist of a single layer, free of contaminants, not foam backed, not perimeter fastened or loose laid, and no asphalt-based adhesive.
- **Existing carpet.** Unsuitable substrate for new installation. Should be removed prior to installation. Any existing adhesive should be addressed as described here.

EXISTING ADHESIVES

As a rule, for any new installation, existing adhesives from previous installations should always be scraped flat and thoroughly encapsulated with a Portland Based Patch or Mannington Assure. Otherwise, an adverse reaction could occur, voiding applicable warranty coverage and leading to installation or product failure.

- **Multi-purpose/pressure sensitive.** Use one of the following methods to prevent possible reaction between the existing adhesive and the new installation:
 - Scrape adhesive flat and encapsulate with Mannington Assure.
 - Thoroughly remove existing adhesive, sand away remaining residue, and then skim coat with a Portland cement-based patching compound.
- **Cutback.** Existing cutback adhesive must be thoroughly removed and fully encapsulated to prevent possibility of irreversible product damage, installation failure, and voiding Mannington Commercial's warranty coverage. Wet with a mixture of water and a small amount of liquid soap. Allow to soak for several minutes before scraping away adhesive. Encapsulate any remaining trace of adhesive residue with Mannington Assure.

PLAN AHEAD

To help assure a successful project and prevent unexpected surprises, the following are also important steps to consider prior to installing any Mannington Commercial carpet:

- **Sequencing.** Rolls should be installed by roll number and in consecutive order. The most uniform installation will be obtained by planning and sequencing.
- **Raised nosing for stairs.** On stairs, always use a raised nosing. Trim carpet to fit nosing on both the step and riser.

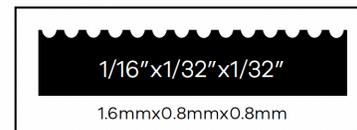
ADHESIVE

Infinity 2 pressure sensitive adhesive is a solvent-free, acrylic based adhesive is formulated specifically for use with Mannington's vinyl backed carpet. Infinity 2 is the appropriate adhesive for installing Mannington's Infinity 2 Six-Foot.

Moisture limits for Infinity 2 Six-Foot with Infinity 2 Adhesive are in-situ relative humidity (maximum 90% RH per ASTM F-2170) and/or moisture vapor emissions (8 lbs /1,000 SF/24 hrs per ASTM F-1869) and a PH limit of 10.

ADHESIVE SPREAD

- Measure areas to be carpeted, make cuts and dry fit cuts into place. Overlap the carpet 3 inches at seams and 1 inch at walls.
- After dry fitting carpet, carefully fold back seams one-half of their width, exposing sub-floor.
- Fully spread Mannington's Infinity 2 pressure sensitive adhesive using a "U" notch trowel 1/16 x 1/32 x 1/32 (1/16" notch width, 1/32" notch depth, 1/32" tooth tip width) or an equivalent that will achieve the proper coverage. The spread rate should be approximately 25 yards of carpet per gallon of adhesive, depending on subfloor conditions.
- Once applied, allow adhesive to dry completely (will not transfer when touched). If carpet is placed into adhesive when wet, a permanent bond will form.
- Lay first breadth of the carpet into the adhesive and work out air pockets, lay second breadth into adhesive overlapping first breadth, work out air pockets toward seam.



SEAM TRIMMING

Seams are to be cut with National Equipment's #575 commercial, "glass," seam cutter after the gluing procedure to avoid shifting at seams.

- The cutter is specifically designed to row cut the top breadth of carpet, while simultaneously trace cutting the lower breadth.
- Simply run a screwdriver or awl down the length of the top breadth of carpet to open a row, adjust the blade to the proper gauge, align the cutter and cut the seam.
- The #575 seam cutter will produce net fitting seams without gaps or fullness.
- To obtain a #575 cutter, call 800-245-0267 for a distributor nearest you.

Apply MT-800 seam sealer, work seam together working out all air pockets. If needed, roll with lightweight roller (35 pounds maximum).

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SEAM SEALER

Mannington's seam sealer MT-800 must be used on all Infinity 2 Six-Foot Backing seams. The instructions are as follows:

1. Fill applicator bottle with seam sealer.
2. Adjust nozzle to control flow. A bead of sealer approximately 1/8" thick, equal to the thickness of the backing, should be laid along the edge of the seam. ***Caution should be taken not to over seal seams, causing the sealer to ooze up through the seam.**
3. Coverage for MT-800 is approximately 500 lineal feet per pint.
4. Under slight compression, fit and smooth out complete joint. This complete operation must be performed in 10 minutes before the sealer dries out.
5. Dampen a clean white, absorbent cotton cloth with Mannington's seam cleaner MT-900 and gently rub the seam to remove sealer that may have surfaced to the carpet pile. Do not pour seam cleaner directly on the carpet. This step acts as final inspection to ensure that the seam is proper and tight.
6. If sealer thickens add small amount of cleaner and stir until "honey"- like consistency returns
 - Long drops will require extra manpower to avoid shifting the carpet when folding back.
 - When trimming walls, note that Infinity 2 Six-Foot Backings do not accept fullness. It is recommended that walls are trimmed net fit or slightly under net with the use of a wall trimmer.
 - Infinity 2 Six-Foot can be used for stairs by cutting for step and riser. Use permanent adhesives suitable for vinyl backed carpets.
 - Carpet may be walked on immediately. Use plywood runner to protect carpet when moving heavy furniture.
 - Chair pads are recommended under chairs for appearance retention.

TRANSITIONS

All carpet products must be properly protected when transitioning to other floor covering or exposed stopping points. The use of a transition molding or protective strip covering the carpet edge at 1/2" is required. If a transition cannot be utilized the carpet nap must be level or slightly below the adjacent floor.

PROTECT INSTALLATION

Ideally, carpet should always be installed last in any construction or renovation project. The completed installation should be protected as finish trades complete the project, during customer move-in, or when heavy rolling carts are used.

- **Craft paper.** Bonded craft paper will protect the completed installation from construction dirt and spills while allowing floor covering primers, sealers, or adhesives to cure properly.
- **Avoid plastic sheeting.** Never use plastic sheeting to protect any installation.
- **Avoid sticky coverings.** Protective coverings with pre-applied adhesive or tackifiers can leave a sticky residue on the carpet face, cause rapid soiling, and should not be used.
- **Heavy rolling carts.** Masonite or plywood should be used in traffic lanes to prevent tile from shifting any time furniture is moved.

AFTER INSTALLATION

As the customer begins to enjoy their new installation of Mannington Commercial carpet, please also note the following:

- Roll entire job with a 75-100 lb roller.
- Chair pads are recommended but are not required. Chair pads can prevent premature wear and distortion of carpet's face fiber underneath rolling office chairs, even when carpet casters are used. Use only carpet friendly casters. Casters should be the flat round type with a 5/8" to 1" width minimum.
- When loop pile carpet is cut, some loops on edges will be cut in half. Vacuuming and routine use will expose those cut yarns that remained compressed and hidden during manufacturing or installation. This blossoming is easily remedied by clipping stray fiber exposed along edges.
- 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.**

If there are any questions or doubts about performing a successful installation of Mannington Commercial's Infinity 2 Six-Foot or Mannington Commercial's adhesives, please stop immediately and call Technical Services at 800-241-2262, Ext. 3.