I. GENERAL INFORMATION

These installation specifications are for Adura® with LockSolid™ Technology. All recommendations are based on the most recent available information. All instructions and recommendations must be followed for a satisfactory installation.

1. Acclimate flooring and the room at a constant temperature between 65°F and 85°F for 48 hrs. prior to and during installation. Temperature of the room should not go below 55°F after 48 hours after installation and anytime thereafter.
2. Open room is not to exceed 50 linear feet in either direction or total of 2500 square feet.
3. Install only after the job site has been cleaned and cleared of other trade apparatus that may damage a finished installation.
4. Mix and install product from different cartons to achieve consistent color variation.

I. INSTALLATION

A. LockSolid Tile Layout

1. Ceramic tile should be made smooth by applying a cementitious overlay such as patching or leveling compound.
2. LockSolid can also be installed over most existing resilient floor coverings, providing that they are smooth, flat structurally sound and free of defects, and do not contain a non-adhesive granular material such as chippings, chipboard, flakeboard, OSB.

B. LockSolid Plank Layout

1. Concrete subfloors should meet requirements prescribed in ASTM F710 “Standard Practice for preparing concrete floors to receive Resilient Flooring”.
2. Concrete subfloors must have a minimum compressive strength of 3000 psi and dry density of at least 100 pounds per cubic foot.
3. Concrete subfloors must be dry, smooth, and free from dust, solvent, paint, wax, grease, oil, asphalt sealing compounds and other extraneous materials. The subfloor surface should be flat within 3/16” in 10’.
4. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured.
5. All concrete slabs must be checked for moisture before installing material. Details for moisture testing can be found on our website. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer. Adura must never be installed where excessive moisture emissions may exist. Moisture emission from subfloor cannot exceed 5 lbs. per 1000 sq. ft. per 24 hours as measured with the calcium chloride test in accordance with ASTM F1869-04 or ASTM F2170 In Situ Relative Humidity not to exceed 80%. Mannington will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured. Although the material is not susceptible to damage from moisture, excessive subfloor moisture is an ideal breeding ground for mold, mildew and fungus. All of which can contribute to an unhealthy indoor environment. The Limited Warranties do not cover discoloration from mold or from flooding, leaking plumbing or appliances, water entering through sliding glass doors or similar conditions.
6. Holes, grooves, expansion joints and other depressions must be filled with high quality Portland based Patching & Leveling Compound, and trawled, smoothed, and feathered even with the surrounding surface. Slab should be flat within 3/16” in 10’.
7. Concrete floors with a hydroponic radiant heating system are satisfactory, provided the temperature of the floor does not exceed 85°F at any point. Before installing the flooring, the heating system should be turned on to eliminate residual moisture. Mannington does not recommend heated floor mats for LVT products.

C. Tile/ Rectangle Installation*

1. Acclimate flooring and the room at a constant temperature between 65°F and 85°F for 48 hrs. prior to and during installation. Temperature of the room should not go below 55°F after 48 hours after installation and anytime thereafter.

I. INSTALLATION

A. LockSolid Tile Layout

1. Ceramic tile should be made smooth by applying a cementitious overlay such as patching or leveling compound.
2. In the rare cases that the removal of the existing resilient floor covering is not an option, the existing flooring must be covered with a high quality cement based Embossing Leveler.

II. SUBFLOOR INFORMATION

Although Adura LockSolid is installed as a “floating” floor, careful and correct preparation of the subfloor is a major part of a satisfactory installation. Roughness or unevenness of the subfloor may telegraph through the new floor covering, resulting in an unsightly surface and excessive wear on high spots. Subfloor should be flat within 3/16” in 10’.

A. Wood Subfloors

1. All wood floors must be suspended at least 18” above the ground. Adequate cross-ventilation must be provided, and the ground surface of a crawl space must be covered with a sub-floor vapor barrier. Wood subfloors directly on concrete or installed over sleeper construction are not satisfactory for installation. Wood subfloors must be covered with a minimum 1/4” or heavier underlayment rated panel to assure successful finished flooring installation. All wood substrate should be smooth, flat, structurally sound and free of deflection (meaning no up and down movement).
2. LockSolid can be installed over many wood substrates that are not suitable for fully adhered products, providing that they are smooth, flat structurally sound and free of defects. This includes particulate board, chipboard, flakeboard, OSB. Caution: Many times wood panel subfloorers are damaged or are not of underlayment grade, the suitability of these floors are the responsibility of the installer. If the surface of the wood subfloor is not smooth, a 1/4” underlayment panel should be installed over the subfloor. All panels selected as an underlayment must meet the following criteria:
   > Be dimensionally stable
   > Have a smooth, fully sanded face so the graining or texturing will not show through
   > Be resistant to both static and impact indentation
   > Be free of any surface components that may cause staining such as plastic fillers, marking inks, sealers, etc.
   > Be of uniform density, porosity and thickness
   > Have a written warranty for suitability and performance from the panel manufacturer or have a history of proven performance.

B. Concrete Subfloor

1. Concrete subfloor must meet requirements prescribed in ASTM F710 “Standard Practice for preparing concrete floors to receive Resilient Flooring”. Concrete subfloor must have a minimum compressive strength of 3000 psi and dry density of at least 100 pounds per cubic foot.
2. Concrete subfloor must be dry, smooth, and free from dust, solvent, paint, wax, grease, oil, asphalt sealing compounds and other extraneous materials. The subfloor surface should be flat within 3/16” in 10’.
3. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured.
4. All concrete slabs must be checked for moisture before installing material. Details for moisture testing can be found on our website. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer. Adura must never be installed where excessive moisture emissions may exist. Moisture emission from subfloor cannot exceed 5 lbs. per 1000 sq. ft. per 24 hours as measured with the calcium chloride test in accordance with ASTM F1869-04 or ASTM F2170 In Situ Relative Humidity not to exceed 80%. Mannington will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured. Although the material is not susceptible to damage from moisture, excessive subfloor moisture is an ideal breeding ground for mold, mildew and fungus. All of which can contribute to an unhealthy indoor environment. The Limited Warranties do not cover discoloration from mold or from flooding, leaking plumbing or appliances, water entering through sliding glass doors or similar conditions.
5. Holes, grooves, expansion joints and other depressions must be filled with high quality Portland based Patching & Leveling Compound, and trawled, smoothed, and feathered even with the surrounding surface. Slab should be flat within 3/16” in 10’.
6. Concrete floors with a hydroponic radiant heating system are satisfactory, provided the temperature of the floor does not exceed 85°F at any point. Before installing the flooring, the heating system should be turned on to eliminate residual moisture. Mannington does not recommend heated floor mats for LVT products.

II. SUBFLOOR INFORMATION

Although Adura LockSolid is installed as a “floating” floor, careful and correct preparation of the subfloor is a major part of a satisfactory installation. Roughness or unevenness of the subfloor may telegraph through the new floor covering, resulting in an unsightly surface and excessive wear on high spots. Subfloor should be flat within 3/16” in 10’.
VI. CAUTIONS AND V. REPAIRS

If it is impractical to just disconnect and reassemble the flooring, the following procedure should be used:

1. Determine the start of the first row will need to be cut. If the first row of planks does not need to be trimmed in width, it will be necessary to cut off the unsupported tongue so a clean, solid edge is toward the wall.

2. Align the first plank so that both the head and side seam groove are exposed. This requires installing the product from left to right in the room. Otherwise, it may be necessary to install “backwards”. This may be done by sliding the grooves under the tongues and working them right to left, but this is more difficult.

3. Install the second plank in the row by angling the end tongue into the end groove of the first plank. Be careful not to bend the corner of the plank. Maintain an expansion gap of approximately 5/16” from the wall. Then cut a plank to length to start the second row. Slagger the end seam at least 6” from the first plank.

4. Install the first plank I the second row by inserting the long side tongue into the groove of the plank in the first row. This is best done with a low angle of the plank.

5. Install the second plank in the second row by inserting the short end tongue into the previously installed plank groove. Align the plank so the long side tongue is positioned just over the groove lip of the plank in the first row. Working from the end seam, with a low angle, insert the long tongue into the groove of the adjoining plank. Very little force is required to seat the tongue into the groove.

6. Work across the length of the room installing planks along the wall in the first row and then aligning the planks in the second row. It is critical to keep these rows straight and square, as they are the “foundation” for the rest of the installation. Check squareness and straightness often.

7. Cut the last plank in the first row to fit approximately 5/16” short from the end wall. Planks may be cut with a utility knife using the “score and snap” technique. Often times the manner of this plank may be used to start the third row.

8. Continue installing planks, being certain to maintain a random appearance and offset end seams by at least 6”. Maintain a 5/16” expansion space at all fixed vertical edges. Check to be certain all planks are fully engaged, if slight gaps noticed the gap can be tapped closed by using a scrap of flooring and a tapping block. It is always a best work practice to use a tapping block lightly tapping rows as you install to fully seat the locking system assured they are fully engaged.

9. When fitting under door casings, etc., the flexibility and low angle of connection of LockSolid becomes evident. If necessary, a flat pull bar or “last board puller” may be used to assist in locking the planks. You may find it easier to modify the tongue and groove using a thumb/block plane, by shaving off small layers of both the tongue and the groove surface to allow them to slide together flat, then just before sliding together, apply a small bead to vinyl seam sealer. This will weld both tiles together as one. Please see www.youtube.com (keyword: LockSolid) on how to complete this task.

10. When fitting around obstacles or into irregular spaces, LockSolid can be cut easily and cleanly using a utility knife with a sharp blade. It is often beneficial to make a cardboard template of the area and transfer this pattern to the plank.

IV. FINISHING THE JOB

Protect all exposed edges of LockSolid by installing wall molding and/or transition strips. Use caution to prevent the fasteners from securing the planks to the subfloor. Caulk along tubs, toliets, etc. Considerations for transitions should be made at substrate changes, room to room environment changes, complicated layouts, subfloor elevation, or room size over 50ft length or width.

After 48 hours, damp mop to remove residual surface dirt. Follow appropriate maintenance schedule for Adura using Mannington Ultra Clean.

Like with all floor coverings, protect the finished LockSolid installation from exposure to direct sunlight. Close your curtains or blinds where extreme sunlight hits the floor. A combination of heat and sunlight can cause most home furnishings fading, discoloration, or thermal expansion. Avoid exposure to direct sunlight for prolonged periods. Prolonged direct sunlight can result in discoloration and excessive temperatures may cause floor expansion (which may cause buckling) or delamination. See Cautions & Miscellaneous for details.

V. REPAIRS

Although the wear surface of Adura LockSolid is durable, it is not bulletproof. Should an accident occur that damages the surface of the product, a simple repair procedure exists. The key to this process is having ample material available to replace the damaged area(s). This should be considered when placing the original order. Extra tiles and planks should be wrapped in their packaging and stored in an interior, climate-controlled location.

If the damaged plank or tile is parallel to the perimeter of the room, the easiest technique is to just disconnect the planks until the damaged plank is removed. Replace the material and reassemble the planks.

When fitting around obstacles or into irregular spaces, LockSolid can be cut easily and cleanly using a utility knife with a sharp blade. It is often beneficial to make a cardboard template of the area and transfer this pattern to the plank.

CAUTIONS AND MISCELLANEOUS

- Do not apply floor papers or adhesives that can result in surface staining. Do not track asphalts on the vinyl floor covering.
- All heavy furniture should be equipped with suitable non-staining, wide-bearing casters or protectors. Non-staining felt protectors are recommended for table and chair legs to help prevent scratching.
- Close your curtains or blinds where extreme sunlight hits the floor. Like with all floor coverings, protect the finished LockSolid installation from exposure to direct sunlight. A combination of heat and sunlight can cause most home furnishings fading, discoloration, or thermal expansion. Avoid exposure to direct sunlight for prolonged periods. Avoid oil drips onto the vinyl floor covering. For more helpful hints on completing this task, please check out our installation videos on www.youtube.com (keyword: LockSolid). Q/R Code Below.

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