Stateside

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General Information

This product must be used for interior applications only and be installed by professional installers that have sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project. Caution should be used in moving and lifting. Allow for appropriate equipment and manpower to safely move materials. Work safe and always follow the relevant safety procedures.

Mats Inc. recommends installing and maintaining entrance matting at all outdoor entrances; this will improve air quality, reduce maintenance costs, and lengthen the life of your floors.

Proper glides must be used on all furniture that may slide directly across the floor, consult the furniture manufacturer for recommendations for use on resilient flooring. Heavy objects must not be moved directly across the floor; use protective boards.

Direct sunlight can cause UV damage (fading or bleaching) to most interior finishes, so Low E glass should be selected that will reduce the UV transmission to less than 1%. If not, applying 3M™ protection film (or similar) on the windows is recommended.

Do not install any material that has visible defects or damage. A contractor that installs any material that has visible defects or damage assumes responsibility for the damaged material.

All Safety Data Sheets (SDS) and Installation, Maintenance and Warranty requirements must be read, understood and followed. These instructions supersede any verbal or written instructions from Mats Inc. representatives and must be followed in order for the limited warranty to be in effect.

Underfloor heating is suitable for providing the adhesive line does not exceed 85°F, and the system is not used for 72 hours after the installation. When it is used, the temperature must not be increased by more than 5°F per day, or thermal shock may cause bond failure.

Technical Data

<table>
<thead>
<tr>
<th>ASTM Specification</th>
<th>ASTM F1700 Class III, Type A (smooth), Type B (embossed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plank size</td>
<td>~ 6&quot; x 48&quot; (152.4 mm x 1219.2 mm)</td>
</tr>
<tr>
<td>Case size</td>
<td>36 square foot / carton per case</td>
</tr>
<tr>
<td>Wear layer</td>
<td>0.5mm (~20 mls) Ceramic enhanced Urethane.</td>
</tr>
<tr>
<td>Thickness</td>
<td>1/8-inch (2.5 mm)</td>
</tr>
<tr>
<td>Composition</td>
<td>Heterogeneous luxury vinyl plank consisting of vinyl, glass fiber reinforcement, a print layer, and a clear ceramic enhanced urethane wear layer.</td>
</tr>
<tr>
<td>Weight</td>
<td>~ 29.7 lbs. per case</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>10 years</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance</th>
<th>Test Method</th>
<th>Requirement</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>ASTM E648</td>
<td>&gt; 0.45 w/cm² for Class 1</td>
<td>Class 1</td>
</tr>
<tr>
<td>Smoke density</td>
<td>ASTM E662</td>
<td>≤ 450</td>
<td>≤ 450</td>
</tr>
<tr>
<td>Slip resistance</td>
<td>UL 410</td>
<td>None</td>
<td>0.91 (not suitable for ramps)</td>
</tr>
<tr>
<td>Size tolerance</td>
<td>ASTM F2055</td>
<td>± 0.016-inch per lin. ft. (0.4 mm/305 mm)</td>
<td>Meets</td>
</tr>
</tbody>
</table>
## Subfloor Preparation

Document every process of the testing, preparation and installation with video or photographs.

### Warning

The Occupational Safety and Health Administration (OSHA) has exposure limits for people exposed to respirable crystalline silica; these limits must be followed. All local, state and federal regulations must be followed; this includes but is not limited to the removal of in-place asbestos containing material. Do not install over a chemically abated subfloor, contact the technical department first.

### Concrete Subfloors

Unless stated otherwise, follow the requirements of ASTM F710. If the subfloor has standing water, hydrostatic pressure, ASR, or if a chemical adhesive remover has been used, do not install; contact the Technical Department.
The substrate must also be smooth (ridge-free) with a flatness tolerance of ≤ 3/16-inch over 10-foot maximum plane variation and if required, smooth using a commercial grade (≥ 3000 psi.) suitable leveling underlayment or skim coat with a suitable patching compound. Follow the manufacturer’s written instructions and limitations which must also meet the moisture requirements / test results for the project and allow it to fully cure / dry before proceeding.

Porosity
See the adhesive moisture limitations, and if required, the substrate must be porous. Test for porosity according to ASTM F3191, the water droplet must be absorbed into the concrete within 5 minutes to be considered porous. Diamond grinding (or similar) to make the concrete surface porous is acceptable. Alternatively, any leveler or patch used must be at least 1/8th-inch thick to be considered porous.

On & Below Grade
All on and below grade concrete slabs must have a confirmed and effective vapor retarder installed directly underneath the slab that meets the requirements of ASTM E1745. If this cannot be confirmed, then use an appropriate moisture mitigation system.

Moisture Mitigation System
If the moisture test results are too high, making the surface porous and allowing it to dry to an acceptable level is recommended. If that is not possible, then we recommend only moisture mitigation systems that conform to ASTM F3010, which must be applied following the manufacturer’s written instructions.

Other products like floating or bonded membranes are available; these are not covered by our limited warranty. Only adhesives suitable for non-porous substrates must be used over such membranes and Mats Inc. will only provide a one-year product defect warranty unless it is a recommended Mats Inc. product.

Joints & Cracks
Do not install over any expansion or moving joints as any subfloor movement may cause installation failure. Use a suitable industry standard expansion joint assembly system, as required.

Gypsum Subfloors
Unless stated otherwise, all Gypsum subfloors must be prepared in accordance with ASTM F2678. The gypsum products must be installed following the manufacturer’s written installation instructions including any requirements for priming. The substrate must be smooth (ridge-free) with a minimum flatness and gradient tolerance of ≤ 3/16-inch over 10-foot.

Wooden Subfloors
Unless stated otherwise all wooden subfloors must be prepared in accordance with ASTM F1482. The substrate must be clean (without contaminates), dry (≤ 8% moisture content).

Wood floors must be double layer construction with a minimum total thickness of 1-inch. The subfloor must be rigid, free from movement, and have at least 18-inches of well-ventilated air space below. Sleepers must not be directly in contact with concrete or earth, and the ground beneath the subfloor must be covered by a suitable vapor retarder. Do not install directly over Masonite™, Lauan, fire retardant, particle or chipboard. The substrate must also be smooth (ridge-free) with a minimum flatness and gradient tolerance of ≤ 3/16-inch over 10-foot.

All Other Subfloors
For all other subfloor/substrates, please contact the Technical Department before proceeding.

Storage, Conditions & Acclimatization
Storage
Must be stored flat and neat (without overhanging). If appropriate, they can be left on the transport pallet. Never store outdoor or in shipping containers.

Conditions
The conditions of the project and on-site storage area must be at a constant (± 5°F) service temperature, that is also between 68°F and 80°F with ambient relative humidity between 35% - 65% for at least 48 hours before acclimatization begins and for 72 hours after installation. The substrate must also be at least 5°F above the dew point.

Acclimatization
The boxes must be stored flat (maximum stacking of 5 high) in the correct conditions, for at least 48 hours before installation, to acclimate properly.

Windows etc. where sunlight may shine onto the subfloor, must be covered for 2 hours prior, during, and for 72 hours after installation using blinds, cardboard or similar.

Installation Instructions
Required & Recommended Tools

Layout
Follow the detailed layout drawings provided or agreed upon by the designer, architect or end user. Calculate and mark out your start lines using a string line, straight edge, and pencil.
Installation

After marking your start lines using a straight edge and pencil, ensure the area is clean and dust free using a Hepa filtered vacuum. Apply the adhesive only to a workable area of flooring at a time following the application instructions, then continue the installation making all cuts as you go with either a guillotine cutter or utility knife, one section at a time until completed.

Option A – MI 1000 Adhesive

When tested following the protocol of ASTM F2170 the limits are as follows:
- MI 1000 Adhesive has a moisture limit of 90% RH used “Wet-set” over porous substrates only.
- MI 1000 Adhesive has a moisture limit of 90% RH used “Dry-to-the-touch” over non-porous substrates.
- MI 1000 Adhesive has a moisture limit of 95% RH used “Dry-to-the-touch” over porous concrete subfloors only.

This adhesive can be used either as a wet-set or semi-dry adhesive, depending upon the porosity of the substrate. Apply using a 1/16 inch x 1/16 inch x 1/16-inch V-notched trowel (ACT). The adhesive must be applied at an angle of approximately 60° to the prepared substrate without voids or puddles. Do not make any sharp turns with the trowel to avoid an uneven application of the adhesive. Do not re-notch trowels; use a new trowel blade for every 4 gallons of adhesive used.

**Wet-set:** Providing the substrate is porous, and humidity levels are correct, the flooring may be correctly placed into the adhesive after approximately ten minutes of open time, depending on site conditions.

**Dry-to-the-touch:** When the substrate is non-porous, allow the adhesive to become dry-to-the-touch, then immediately and correctly place the flooring into the adhesive. The timing will depend on the humidity levels and porosity of the substrate. **Important:** Install the flooring into the exposed adhesive within two (2) hours after it has become “Dry-to-the-touch” and do not allow the adhesive to become contaminated with dust or anything else; if it does, remove the adhesive and apply fresh adhesive.

Option B – Perma-Spray 2000 Adhesive

95% RH is the maximum allowable moisture content for concrete subfloors when tested following the protocol of ASTM F2170.

Mark out the floor (pencil) into ~ 150 foot² sections (approx. 10’ x 15’). Clean the substrate again using a flat mop and “3M™ Easy Trap Duster sheets”, or similar. Wipe your hand across the substrate, if dust is transferred then repeat or wash the floor until it is clean.

Apply the adhesive following the instructions on the can.

Shake the aerosol cans well before use. Protect from overspray using a spray shield, cardboard or similar. Spray the adhesive 20-30 inches from the substrate while walking from right to left. The adhesive should spray out in a white mist and fall like snow, following the spray pattern on the label for the proper coverage, make sure you empty a full can evenly in each of the 150 foot² sections.

Wait 10-20 minutes for adhesive to dry before installing the flooring. There should be no transfer of adhesive to finger. The flooring must be installed within 2 hours. Do not allow the adhesive to over-dry, become contaminated with dust or similar.

Finish Installation

Clean up all debris, take photographs and if required, protect the flooring from traffic and have the end user or representative sign a “Job Completion Ticket”.

Maintenance Instructions

Precautions
Do not perform any wet maintenance procedures for 72 hours after the installation to allow the adhesive to cure. Always post “wet floor” signs and/or “caution tape” when wet maintenance is going to be performed. Prohibit foot traffic until the floor is completely dry. Remove all metal objects prior to wetting the flooring. Follow facility’s Standard Operating Procedures (SOP).

Do not use dust mops treated with oils or silicones, acetone, strong alkaline cleaning agents, scouring powder, strong solvents, or abrasive cleaning pads, as these can damage the product.

Initial Cleaning (after installation)
Dust mop or vacuum the floor to remove dirt or grit. This is the single most important maintenance activity for preserving the appearance and performance of the floor and is typically the most overlooked and omitted.

Wet mop the entire floor using a suitable neutral cleaning solution like Diversey Profi or similar. Allow the solution a dwell time of approximately 5 minutes. Scrub the flooring using a suitable auto-scrubbing machine or floor scrubber (~ 175 RPM) with a red pad. For small areas, a soft nylon broom and wet vacuum may also be used. Wet vacuum up the soiled solution. Rinse with clean water. Remove using a wet vacuum, and allow the floor to dry.

Floor Finish
Floor finish is not required. However, an acrylic floor finish can be used to extend the life of the flooring.

If selecting a floor finish, use only those recommended for solid vinyl floor tile. Apply following the manufacturer’s written instructions. The frequency for re-applying a floor finish will vary based on the chosen product, application, amount of traffic, and the end-user preferences. To reapply, first, perform a “Deep Cleaning”.

Daily Cleaning
Dust mop or Dust mop or vacuum the floor to remove dirt or grit and follow one of the following options:

A. Damp mop using a flat microfiber mop and a suitable neutral cleaning solution like Diversey Profi or similar. Change the microfiber head as often as required (follow SAP), and allow the floor to dry prior to use.
B. Steam clean the floor using a suitable steam cleaner and microfiber pads and distilled water (Daimer KleenJet Mega 1000CVP and Telescopic Vapor Steam Mop, or similar). This is an ideal method for patient and small rooms. Allow the floor to dry prior to use.

Change the microfiber head often as required (each patient room) and do not allow the steam to stay stationary on the flooring for more than 5 seconds.

C. Large or heavily trafficked areas should use a suitable auto-scrubbing machine or floor scrubber (~ 175 RPM) with a red pad and a suitable neutral cleaning solution like Diversey Profi or similar. Scrub and wet vacuum up the soiled solution. Rinse with clean water. Remove using a wet vacuum, and allow the floor to dry prior to use.

Deep Cleaning
This may be required when your routine cleaning is not meeting your expectations: dust mop or vacuum the floor to remove dirt or grit.

Wet mop the entire floor using a suitable neutral cleaning solution like Diversey Profi or similar. Allow the solution a dwell time of approximately 5 minutes. Scrub the floor using a suitable auto-scrubbing machine or floor scrubber (~ 175 RPM) with a red pad. For small areas, a medium nylon broom and wet vacuum may also be used. Scrub and remove the soiled solution using a wet vacuum. Rinse with clean water. Remove using a wet vacuum, and allow the floor to dry prior to use.

Note: Disinfectant cleaners leave a residue behind that can lead to stickiness, especially if over applied and must be removed to avoid building up. “Daily Cleaning” is required at least weekly using a suitable auto-scrubbing machine or floor scrubber (~ 175 RPM) with a red pad and a suitable neutral cleaning solution like Diversey Profi or similar. Scrub and wet vacuum up the soiled solution. Allow the floor to dry. Damp mop the floor using an EPA-registered disinfectant cleaner, and allow the floor to dry prior to use (check with SOP).

Limited Warranty
Mats Inc. (“SELLER”) warrants that Stateside (the “Product”) sold to the first end user (“END USER”) will be free of manufacturing defects in materials provided that Product is stored, installed, and maintained strictly in accordance with the SELLER’s instructions for a period as provided in Section IV of this Limited Warranty.

Receipt and installation of the Product constitutes acceptance of this Limited Warranty and all of its terms, conditions, limitations, and disclaimers. This Limited Warranty applies only to installations sold to the first END USER of the Product and becomes void on the transfer or sale of the Product or the use of the Product by any party other than END USER.

I. Installation and Maintenance Requirements
This Limited Warranty applies only if:

1. The Product is installed on a properly prepared subfloor as detailed within the product installation instructions and ASTM F710 Standard Practice for Preparing Concrete Subfloors to Receive Resilient Flooring; and
2. The Product is installed properly following the published installation instructions by professional flooring installers experienced at installing commercial resilient floor covering products and having sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project; and
3. The Product is maintained according to the SELLER’s instructions furnished to END USER at the time of purchase; and
4. The Product is not misused or abused, and there is no evidence of mishandling, neglect, modification or repair without the approval of SELLER or damage done to the product by anyone other than SELLER.

II. Method for Obtaining Warranty Service
To obtain a replacement product under this Limited Warranty, END USER must:

Provide SELLER with a written notice of any alleged defect within the warranty period stated in Section IV and ten (10) days of its discovery; and

Ship the photographs of the defective product(s) to SELLER at 179 Campanelli Pkwy., Stoughton, MA 02072 with mailing or shipping charges prepaid (“Warranty Claim Procedures”).

III. Warranty Service Period
If the Product shall be proved to SELLER’s satisfaction to be defective, within the applicable warranty period described below, SELLER’s obligations under this Limited Warranty shall be limited to either repairing or replacing the Product, at SELLER’s sole discretion, if such defect was caused solely by defective materials. Such repair or replacement shall be the SELLER’s sole obligation and END USER’s exclusive remedy hereunder and shall be conditioned upon END USER fulfilling its obligations under SELLER’s Warranty Claim Procedures.

Pursuant to Subsection (A), SELLER’s warranty services will specifically include providing END USER with alternative floor covering products and having sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project; and

The Product is maintained according to the SELLER’s instructions furnished to END USER at the time of purchase; and

The Product is not misused or abused, and there is no evidence of mishandling, neglect, modification or repair without the approval of SELLER or damage done to the product by anyone other than SELLER.

IV. Warranty Period
This Limited Warranty of the Product, and any implied warranties provided to END USER by state law not otherwise excluded or disclaimed in this Limited Warranty, apply for ten (10) years, starting from the date of shipment of the Product from SELLER’s manufacturing or distribution facilities, including motor drive or other means of transportation.

V. Exclusions from Warranty
This Limited Warranty does not apply to Product which has been discontinued or to a particular color or design which has been discontinued at the time of sale or to Product sold as seconds or B- grade.

The following is not included under this Limited Warranty:
1. Color deviations as compared to physical, printed, and/or electronic representations of the Product;
2. Damage caused by improper storage and handling of the Product;
3. Product delivered damaged unless the SELLER is notified as soon as the Product is received;
4. Damage resulting from inadequate protective matting at entryways including from sand and/or grit;
5. Damage or Product failure including adhesive and accessories as a result of either improper subfloor preparation, installation or maintenance;
6. Damage caused by the failure of any other product from either defect or workmanship including but not limited to moisture mitigation system, primer, leveling or patching compound;
7. Damage caused by exposure to petroleum distillants (solvents, chlorine, acidic chemicals), car tires, alcohol, keystones, Sharpies, markers or paints etc., asphalt and bitumen materials, wet cardboard or hardboard, fire treatment and maintenance materials transferred from carpets that may cause staining, dyes or printing from packaging, prolonged contact with rubber mats or rubber backed carpets, rubber furniture rests or wheels and shoe soles not made from non-staining materials or industrial and pine oils;
8. Damage caused by excessive moisture and alkalai in the subfloor (above the published adhesive moisture limit);
9. Damage caused by misuse, unreasonable use, abuse and/or negligence, including any indentation to the Product from spiked heels or any heavy point loading in excess of the published load limit;
10. Damage caused by furniture, appliances, fixtures, and equipment that is not properly leveled with appropriate protective glides, casters and/or floor protectors;
   a. Glides must be a minimum of 1” in diameter.
   b. Glides must be flat, smooth and slightly rounded.
11. Damage caused by extended direct exposure to sunlight (UV);
12. Labor costs for removing and/or re-installing replacement and associated freight costs are not covered under this warranty.

VI. Limitations on Warranty
This Limited Warranty is provided by SELLER, and it contains the only express warranty provided to END USER by SELLER. SELLER does not authorize any other person to give any other warranties on SELLER's behalf.
SELLER disclaims any express warranty not provided herein and any implied warranty, guarantee or representation as to performance, quality and absence of hidden defects, and any remedy for breach of contract, which but for this provision, might arise by implication, operation of law, custom of trade or course of dealing, including implied warranties of merchantability and fitness for a particular purpose. SELLER further disclaims any responsibility for losses, expenses, and inconveniences, special, indirect, secondary or consequential, incidental, and contingent damages whatsoever, including damages arising from ownership or use of the product.
Implied warranties in jurisdictions where they may not be disclaimed shall be in effect only for the duration of the express warranty set forth herein. If END USER has a claim under this Limited Warranty or under any implied warranties provided to END USER by state law, END USER may not file a court action based on that claim any later than one (1) year after END USER's right to file a court action accrues. In those states which do not allow this limitation on the time period for filing a court action, this provision is inapplicable.

VII. Sellers Liability
SELLER's liability with respect to the Product sold to END USER shall be limited to the warranty provided herein. SELLER shall not be subject to any other obligations or liabilities, whether arising out of breach of contract, warranty, tort (including negligence and strict liability) or other theories of law, with respect to products sold or services rendered by SELLER, or any undertaking, acts or omissions relating thereto.
Without limiting the foregoing, SELLER specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, services, downtime, shut down or slow down costs, or for any other types of economic loss, and for claims of END USER's customers or any third party for any such damages. SELLER shall not be liable for and disclaims all consequential, incidental and contingent damages whatsoever.

VIII. Miscellaneous
Any description of the Product, whether in writing or made orally by SELLER or SELLER's agents, specifications, samples, models, bulletins, drawings, diagrams or similar materials used in connection with END USER's order, are for the sole purpose of identifying the Product and shall not be construed as an express warranty unless confirmed in writing by SELLER to be such.

Related Documents
ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
ASTM F137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus
ASTM F386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
ASTM F410 Standard Test Method for Wear Layer Thickness of Resilient Floor Coverings by Optical Measurement
ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring
ASTM F1482 Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring
ASTM F1700 Standard Specification for Solid Vinyl Floor Tile
ASTM F1914 Standard Test Methods for Short-Term Indentations and Residual Indentation of Resilient Flooring
ASTM F2055 Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method
ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Slabs using in-situ Probes
ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat
ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings
ASTM F3191 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring
UL 410 Certification for Slip Resistance of Floor Surface Materials
ASTM documents are available from www.astm.org