



Expanko Resilient Flooring  
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## TILE INSTALLATION INSTRUCTIONS

**TECHNICAL SUPPORT 800.345.6202**

### A. INTRODUCTION

Please read these instructions thoroughly before installation.

### B. SITE CONDITIONS

1. Store the flooring and adhesive in the installation area.
2. The temperature must be kept between 65°F and 75°F for 48 hours before, during and after installation.
3. Both flooring and adhesive must be acclimatized 48 hours prior to installation. Flooring should be removed from the pallet 24 hours prior to installation and stacked no more than 3 cartons high with at least 4" of airflow around the cartons. Do not leave boxes close to heat or cooling ducts or in direct sunlight.
4. When unpacking the tiles, some of them could have an inconsistent gloss appearance. This effect occurs during the manufacturing and packaging process and will disappear when the initial maintenance procedure is performed.
5. Avoid placing flooring in direct sunlight (windows or doors) before installation, as it could create shading.
6. Flooring products with arrows on the back must be installed with the all arrows pointing in the same direction.
7. For any problem related to chemical abatement or high humidity refer to the "Remediation Systems" document.

### C. MOISTURE TESTING

1. Follow ASTM F 710 "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring". This includes determining Moisture Levels, Relative Humidity and pH Levels, as per the ASTM specifications listed below:
  - a. ASTM F 1869, Anhydrous Calcium Chloride test for Moisture levels. The maximum allowable reading is 5 lbs/1,000 sq. ft./24 hours for AD-777 and AD-535 adhesives
  - b. ASTM F 2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading is 85% RH for AD-777 and 85% RH for AD-535.
  - c. ASTM F 710, pH levels (test procedure 5.3.1). The readings should be between 8 and 10.

2. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. and 1 measure for each additional 1,000 sq. ft.
3. Ensure Moisture, Relative Humidity and pH tests have all been conducted according to the latest ASTM version, and measurements meet manufacturer's specifications.
4. For all grade installations (on, above or below), it is the flooring contractor's responsibility to ascertain that there is not too much moisture in the concrete and that it will not increase at a future date above the recommended levels. Expanko Resilient Flooring will not be responsible for hydrostatic pressure that may occur in the future.

#### **D. SUBFLOOR PREPARATION**

1. Porous surfaces: for construction-grade plywood, cementitious underlayment, dry concrete that is above, on or below grade, refer to ASTM F 1482 "Standard Practice for Installation and Preparation of Panel-Type Underlayment to Receive Resilient Flooring" for general guidelines. A porous concrete surface will absorb a drop of water within 5 minutes.
2. Non-porous surfaces: for terrazzo, ceramic tile, metal, existing fully adhered non-cushion backed resilient on all grade levels except existing tile below grade, refer to ASTM F 710 for general guidelines. The non-porous surface shall be sanded to facilitate the anchoring of the adhesive.
3. Concrete subfloor must be smooth and flat. Imperfections in the subfloor may show through the finished flooring. All cracks, voids and undulations must be repaired prior to flooring installation; with high strength Portland cement based patching material. Refer to WWHenry / Ardex for product recommendations and installation methods, [www.ardex.com](http://www.ardex.com). Expanko only recommends Ardex Products.
4. Saw cuts must be cleaned carefully and filled using cement based compound. Flooring must not be installed over expansion joints.
5. All surfaces must be clean, dry and free of dust, grease, paint, oil, sealers and curing compounds or any other foreign material that may interfere with proper adhesion.
6. Do not use chemical adhesive removal products (chemical abatement products); their use will void the Expanko Resilient Flooring warranty.
7. Do not use dry sweep oil-based material, as the oil in the sweeping compound will interfere with the adhesion of the material to the concrete.
8. For detailed instructions, refer to the Floor Preparation document available on our web site at [www.expanko.com](http://www.expanko.com).

#### **E. ADHESIVE SYSTEMS**

1. The use of the proper adhesive is critical for a successful end result. Expanko Resilient Flooring will only guarantee its flooring products if AD-777 or AD-535 adhesives are used.
2. AD-777 is a water-based acrylic adhesive for general use; it can be used as a wet-set for porous surfaces or as a pressure-sensitive for both porous and non-porous surfaces; for demanding applications such as heavy rolling load traffic AD-535 must be used.
3. Protect from freezing in transit and storage.
4. Trowel specifications are written as follows: depth / width / spacing.
5. Use kneepads and work off the flooring whenever possible.
6. Clean spills, oozing and tools promptly using soapy water, ethyl alcohol or isopropyl alcohol.
7. Do not reuse container. Dispose of container and adhesive in accordance with federal, provincial/state and local waste disposal regulations.

8. Do not rework trowel. Always use a trowel in good condition.
9. Contact Expanko Resilient Flooring for additional information.

### AD-777 ADHESIVE

1. AD-777 can be used as a wet-set or a pressure-sensitive adhesive; it has a creamy color with a syrupy consistency.
2. **Porous surfaces:** spread adhesive with a 1/32" x 1/16" x 1/32" U-notched trowel. Allow 0-15 minutes open time when using as a wet-set or let dry 15-45 minutes until dry to the touch when using as a PSA. Working time on concrete is up to 1 hour, depending on temperature and humidity.
3. **Non-porous surfaces:** spread adhesive with a 1/32" x 1/16" x 1/32" U-notched trowel. Allow 15-45 minutes open time until dry to the touch. Working time on concrete is up to 2 hours, depending on temperature and humidity.
4. Coverage: porous surfaces up to 200 sq. ft./gallon; non-porous surfaces up to 245 sq. ft./gallon.
5. Do not force the tiles together; rather install them so they are just touching each other to form a tight seam.
6. Roll the flooring in both directions prior to adhesive hardening with a 75-100 lb. sectional roller.
7. We recommend the following guidelines for traffic:
  - Up to 24 hours following installation: no traffic
  - Between 24 and 72 hours: light traffic
  - After 72 hours: moderate to heavy traffic

### AD-535 ADHESIVE

1. AD-535 is a two-part epoxy-based adhesive that is off-white when mixed.
2. AD-535 creates a very strong bond when applied to porous and non-porous surfaces.
3. Remove the lid of part A and stir using a mechanical mixer. Remove the lid of part B and pour all the content into the container of part A. Use a rubber spatula to remove everything from the container. Use a mechanical mixer to ensure proper blending, as inadequate mixing could cause bond failure.
4. Pour the entire adhesive onto the floor immediately after mixing. Do not leave the mixed adhesive in the original can; the heat generated by the chemical reaction will reduce the open time of the adhesive.
5. **Porous and non-porous surfaces:** Spread adhesive with a 1/32" x 1/16" x 1/32" U-notched trowel on porous and non-porous surfaces. A porous concrete surface will absorb a drop of water within 5 minutes.
6. Coverage: porous surfaces up to 160 sq. ft. /gallon; non-porous surfaces up to 200 sq. ft. /gallon.
7. Open time is 30 minutes. Curing time will vary depending on site conditions (i.e. temperature, humidity). It is still workable if it is wet and sticks to the fingers when touched. If a dry skin has formed on the surface of the adhesive, remove the adhesive and start over.
8. Do not force the tiles together; rather install them so they are just touching each other to form a tight seam.
9. Roll the flooring in both directions prior to adhesive hardening with a 75-100 lb. sectional roller. Rolling must be done within 30 minutes of laying the flooring; roll again 2 to 3 hours later.

10. We recommend the following guidelines for traffic:

- Up to 6 hours following installation, no traffic
- 6 to 24 hours: moderate to heavy foot traffic
- After 24 hours: regular rolling traffic

## **F. FLOOR PROTECTION AND INITIAL MAINTENANCE**

1. Following installation and clean up of the tiles, protect it by laying sheets of non-staining brown Kraft paper over the flooring and then a layer of plywood sheets. Leave in position until the work of all other trades has been completed.
2. Do not start any maintenance procedures for a minimum of 24 hours after installation.
3. Do not, at any time during the initial maintenance or thereafter, flood the floor with water or maintenance solutions.
4. Refer to Sereniti Rubber Flooring Maintenance Instructions (Document 711T) for specific details.

## **WARNING: REMOVAL OF OLD FLOORING**

Do not sand, dry sweep, dry scrape, drill, saw, bead blast, mechanically chip or pulverize existing resilient flooring, backing, felt lining, paint, asphaltic cutback adhesives or other adhesives. These products may contain asbestos fibres or crystalline silica. Avoid creating dust as inhalation increases the risk of cancer and respiratory diseases. Smokers exposed to asbestos fibres are at greater risk of serious bodily harm. Unless certain that the product is asbestos-free, assume that it contains asbestos. Regulations may require that material be tested to determine asbestos content. Consult the Resilient Floor Covering Institute's (RFCI's) recommendations for removal of existing resilient floor coverings.

Sereniti Rubber Flooring Pre-Installation Guidelines (*Document 010R*) and Sereniti Rubber Flooring Care and Maintenance Instructions (*Document 711T*) are available at [www.expanko.com](http://www.expanko.com).

For more information about Expanko visit [www.expanko.com](http://www.expanko.com) or contact 800.345.6202.