



**ATMOSPHERE<sup>®</sup>**  
**RECYCLED RUBBER FLOORING**



**RUNWAY™**

# Installation & Maintenance Manual

May 2011

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The following recommendations are listed because of our extensive testing and field experience with the **Atmosphere® Runway™** product. These instructions are given only as guidance to our customers and for use with our recommended tools and adhesives. To Market cannot accept any responsibility for loss or damage that may result from the use of this information due to variations in working conditions and/or workmanship of the installer. Users are advised to conduct their own tests for a particular application and assign installers that are familiar with this type of flooring product.

# Installation

## **I. JOB SITE CONDITIONS**

1. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the floor should be protected with an appropriate cover. Kraft paper or plastic work well.
2. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during and after the installation.

## **II. SUBFLOORS**

**Atmosphere® Recycled Rubber Flooring; Atmosphere® Runway™** may be installed over concrete, approved Portland-based patching and leveling materials such as Ardex K-15 or equivalent, and wood.

**NOTE:** Ardex Engineered Cements, 400 Ardex Park Drive, Aliquippa, PA 15001 (724) 203-5000

**NOTE:** Gypsum-based patching and leveling compounds are not acceptable.

Wood Subfloors – wood subfloors should be double construction with a minimum thickness of one inch. The floor must be rigid, free from movement with a minimum of 18 inches of well-ventilated air space below.

2. Underlayment's – The preferred underlayment panel is American Plywood Association (APA) underlayment grade plywood, minimum thickness of 1/4", with a fully sanded face.

**NOTE: Particleboard, chipboard, Masonite and lauan are not considered to be suitable underlayments.**

3. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days and meet the relative humidity requirements per ASTM F2710 or the calcium chloride moisture emission test conducted in accordance to ASTM F1869 before installing **Atmosphere® Runway™**. It must be fully cured and permanently dried.

NOTE: Read further for dryness requirements.

## **III. SUBFLOOR REQUIREMENTS AND PREPARATION**

1. Subfloors shall be dry, clean, smooth, level and structurally sound. They should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue and other extraneous materials, according to ASTM F710.
2. Subfloors should be smooth to prevent irregularities, roughness or other defects from telegraphing through the new flooring. The surface must be smooth and level to a tolerance not exceeding 1/8" in 10 lineal feet. If existing sub-floor is rough or does not meet the above criteria, apply a Portland based leveling compound to smooth and level the surface. Follow all leveling compound manufacturer's instructions.

3. Mechanically remove all traces of old adhesives, paint or other debris by scraping, sanding or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved Portland-based patching compound.

4. All saw cuts (control joints); cracks, indentations and other non-moving joints in the concrete must be filled with an approved Portland-based patching compound.

5. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.

**NOTE:** Expansion joint covers can be obtained from: Balco, Inc. 2626 South Sheridan P.O. Box 17249 Wichita, KS 67217 (316) 945-9328

6. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling Reaction with the PU350 adhesive.

**HAZARDS:**

**SILICA WARNING** – Concrete, floor patching compounds, toppings and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Classified by OSHA as an IA carcinogen, respirable silica is known to cause silicosis and other respiratory diseases. Avoid actions that may cause dust to become airborne. Use local or general ventilation or provide protective equipment to reduce exposure to below the applicable exposure limits.

**ASBESTOS WARNING** – Resilient flooring, backing, lining felt, paint or asphaltic “cutback” adhesives can contain asbestos fibers. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, dry scrape, drill, saw, bead blast or mechanically chip or pulverize. Regulations may require that the material be tested to determine the asbestos content. Consult the document “*Recommended Work Practices for Removal of Existing Resilient Floor Coverings*” available from the Resilient Floor Covering Institute.

**LEAD WARNING** – Certain paints can contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state and local laws and the publication “*Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing*” available from the United States Department of Housing and Urban Development.

7. Based on using the PU350 adhesive, maximum moisture vapor emission of the concrete must not exceed 5 1/2 lbs. /1,000 sq. ft. in a 24-hour period, as measured by the calcium chloride moisture emission test conducted in accordance to ASTM F1869. If the emissions exceed limitations, the installation should not proceed until the problem has been corrected.

8. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.

9. Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3' x 3' test pieces of the flooring with the recommended adhesive and trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be required to remove the flooring and, when removed, there should be adhesive residue on the subfloor and on the back of the test pieces.

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**NOTE:** This product is suitable for installation over a radiant heat source.

#### **IV. MATERIAL STORAGE AND HANDLING**

1. Material should be delivered to the job site in its original, unopened packaging with all labels intact.
2. Roll material should always be stored lying down. Storing rubber on end will curl the edges resulting in permanent memory of the material. All edges with memory curl must be straight edge cut before installation. Do not store rolls higher than 4 rolls or more than six months. Material should only be stored on a clean, dry, smooth surface.
3. Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color and amount. Any discrepancies must be reported immediately before beginning installation.
4. The material and adhesive must be acclimated at room temperature for a minimum of 24 hours before starting installation.
5. All **Atmosphere® Runway™** rolls must be unrolled and installed in the same direction. Laying rolls in the opposite direction will cause color variations between the rolls.
6. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should allow all cuts to relax for a minimum of two hours before installing. Shaking the material once it is unrolled can help it to relax.

#### **V. INSTALLATION – ROLL MATERIAL**

1. Make the assumption that the walls you are butting against are not straight or square. Using a chalk line, make a starting point for an edge of the flooring to follow.
2. Remove the **Atmosphere® Runway™** from the shrink-wrap and unroll it onto the floor. Lay the **Atmosphere® Runway™** on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length, including enough to run up the wall.
3. Allow the cuts to relax in position for a minimum of two hours. 24 hours is preferred.
4. Place the edge of the first roll along the chalk line.
5. Position the second roll with no more than a 1/16" overlap over the first roll at the seam. Work the material back to eliminate the overlap. This procedure will leave tight seams and eliminate any gaps.
6. Repeat for each consecutive roll necessary to complete the area or those rolls that will be installed that day.

## 7. METHOD 1 – GLUE DOWN

### (4mm, 6mm, 8mm and 10mm Rolls)

**NOTE:** 10mm is the only approved thickness for ice rinks applications.

- a. After performing the above procedures, begin the application of the adhesive. We recommend PU350, a one-component moisture-cured polyurethane adhesive. **PU350 should not be mixed.** It is specially formulated for use right out of the pail. Apply PU350 to the substrate using a 1/16" square-notched trowel.
- b. Fold over the first drop along the wall (half the width of the roll).
- c. Spread the adhesive using the proper size square-notched trowel. Take care not to spread more PU350 than can be covered with flooring within 30 minutes. The open time of the adhesive is 30–40 minutes at 70°F and 50% relative humidity. **NOTE:** Temperature and humidity affect the open time of the adhesive. Temperatures above 70°F and/or relative humidity above 50% will cause the adhesive to set up more quickly. Temperatures below 70°F and/or relative humidity below 50% will cause the adhesive to set up more slowly. The installer should monitor the on-site conditions and adjust the open time accordingly.
- d. Lay the flooring into the wet adhesive. Do not allow the material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring.
- e. Immediately roll the floor with a 100 lb. roller to ensure proper adhesive transfer. Overlap each pass of the roller by 50% of the previous pass to ensure the floor is properly rolled. Roll the width first and then the length.
- f. Fold over the second half of the first roll and half of the second roll. Spread the adhesive. **Spread the adhesive at right angles to the seam to prevent the adhesive from oozing up through the seam.** Roll the flooring.
- g. Continue the process for each consecutive drop. Work at a pace so that you are *always* folding material back into wet adhesive. **NOTE:** Never leave adhesive ridges or puddles. They will telegraph through the material.
- h. **DO NOT GET PU350 ADHESIVE ON THE TOP SURFACE OF THE RUBBER FLOORING AS IT IS VIRTUALLY IMPOSSIBLE TO REMOVE. CONTACT YOUR TO MARKET SUPPLIER IMMEDIATELY FOR SUGGESTED CLEANING METHODS IF THIS HAPPENS.**  
  
Cured adhesive is very difficult to remove from hands. **We strongly suggest wearing gloves while using PU350!**
- i. If some seams are gapping, temporarily hold them together with low-tack painters tape. Do not use regular masking tape or duct tape as it will leave a residue on the floor. Remove the tape immediately after the adhesive develops a firm set. Do not leave tape on for extended time as residue will become difficult to remove without damaging the floors.
- j. Keep traffic off the floor for a minimum of 24 hours. Foot traffic and rolling loads can cause permanent indentations in the uncured adhesive.

## **8. METHOD 2 – TAPE DOWN- (10mm Roll)**

***check with your To Market representative for suitable applications***

- a. Dry-lay the rolls onto the subfloor.
- b. Draw a pencil line beneath all seams to be taped.
- c. Use a high-quality double-faced carpet tape with a minimum width of two inches.
- d. Fold over the first drop along the chalk line (half the width of the roll).
- e. Apply two strips of the double-faced tape along the seam, one on each side of the pencil mark.
- f. Remove the release paper and place the flooring onto the exposed tape.
- g. When butting one roll next to another, overlap the seams by no more than 1/16". Work the material back to eliminate the overlap. This procedure will leave tight seams over the tape and eliminate any gaps.
- h. Roll the seams only to ensure adequate contact. Do not roll the entire floor.

**NOTE:** Tape method is not an approved procedure for ice rink applications.

# Maintenance Information

## I. DIVERSEY® CLEANING PROCEDURES for Recycled Rubber Flooring

### 1. Initial Cleaning

- a. Remove all surface soil, debris, sand and grit by sweeping, dust mopping or vacuuming with a high CFM vacuum. For large areas, use auto scrubbers to clean floors.
- b. Scrub floor with a neutral pH (7-9) detergent, such as DIVERSEY Profi cleaner (10 oz. /gal. of water), using buffer or autoscrubber with a soft nylon brush or a mint or purple pad. Avoid flooding the floor.
- c. Pick up solution with a wet vacuum, rinse with clean water, picking up the rinse water with a wet vacuum, and allow floor to dry thoroughly (6-8 hours).

### 2. Daily/Regular Cleaning

- a. Sweep, dust mop or vacuum floor to remove surface soil, debris, sand and grit.
- b. Damp mop with a microfiber mop or autoscrub using purple pad with DIVERSEY Profi (6-10 oz. /gal. of water) or equivalent pH neutral cleaner.

### 3. Restorative Maintenance

- a. Sweep and dry vacuum floor thoroughly.
- b. Heavy scrub floor with Diversey Profi (10 oz. /gal. of water), Combi Plus or Diversey Wi-wax. This cleaning may be performed with an auto or rotary scrubber (purple or black pad).
- c. Vacuum soiled solution with a wet/dry vacuum.
- d. Rinse with clean water.
- e. Pick up solution with wet vacuum.
- f. Allow floor to thoroughly dry.

### 4. Heavy Soil

- a. Remove as much surface soil, debris, sand and grit as possible by sweeping, dust mopping or vacuuming.
- b. Scrub floor with a neutral pH (7-9) detergent, such as Diversey (Taski) Profi cleaner or Diversey LinoSAFE® Linoleum stripper, using a buffer or auto scrubber with a brown or black pad.
- c. Pick up solution with a wet vacuum, rinse with clean water and allow floor to dry thoroughly (6-8 hours).

## **Runway 10-Year Limited Warranty**

**To Market™** (“the Seller”) hereby warrants to the original purchaser of **Atmosphere® Runway™** (the “product”) shall conform to all published specifications, and to any specifications required by Buyer and accepted by Seller, for a period of ten (10) years from the date of shipment for heavy commercial traffic as follows:

1. The Product will comply with the technical specifications and measurements and be fit for all applications as set forth in Manufacturer’s published technical and promotional materials at the time of sale, and
2. The Product shall be free from defects in materials and workmanship (subject to the limitations set forth below) including that it will not lose 15% or its content for a period of 10-years from the date of purchase from Manufacturer/Seller, or its authorized distributors, dealers or licensees.

The warranty does not extend to:

- Products which have improperly installed by any party other than the Manufacturer/Seller or its authorized distributors, dealers or licensees;
- Normal wear and tear of Products;
- Products subject of misuse, abuse, neglect, chemical cleaning or contact not specifically approved by Manufacturer, or the addition of ingredients at Purchaser’s request or preparation of a sub-base not specially approved by Manufacturer/Seller

Installation and maintenance procedures must be followed exactly as specified by **To Market™ Atmosphere® Runway™ Installation & Maintenance Guide**. **To Market™** will not be responsible for claims arising from failure to follow installation or maintenance procedures or from use of non-specified materials. Any resulting claim would not be considered a Manufacturer’s/Seller defect and would be the responsibility of the installation contractor.

*Surface features called blade marks, scythe marks, rock lines or striations, as well as small particles of white wall appearing in the black rubber are not considered a Manufacturer’s defect and are inherent to the manufacturing process using recycled rubber materials. Roll thickness may vary  $\pm .5mm$  due to tolerances within the manufacturing process.*

For ice arena applications, this warranty does not extend to “player boxes or entryway pivot areas.

Manufacturer’s/Seller sole liability under this limited warranty shall be the repair or replacement, excluding installation and other costs, as is option, of Product strictly according to the procedures set forth below:

**The implied warranties of merchantability and fitness for a particular purpose are hereby specifically disclaimed. In no event shall Manufacturer/Seller be liable for any special, indirect or consequential damages, whether arising out of contract, tory or any theory of law.**

To exercise this Limited Warranty, Manufacturer/Seller must be notified within fifteen (15) days of any occurrence – giving rise to a claim and prior to installation, given opportunity to inspect the Product, and have issued direction to the original Purchaser respecting disposition of Product to be replaced under this Limited Warranty. Purchaser shall comply with all reasonable requests of Manufacturer/Seller in the administration of any warranty claim. For any claim, please contact a To Market Sales Representative through your installation contractor.

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