



Installation / Maintenance Guidelines (revised version April 1, 2003)

Atmosphere™ Recycled Rubber Flooring is a high quality recycled product. In order to enjoy your new floor fully, proper installation procedures must be followed. The following installation tips are guidelines only...please read this manual before laying Atmosphere™ Recycled Rubber Flooring.

On receipt of merchandise:

- Inspect your shipment for damage
- Verify packing slip
- Store in a dry, heated, clean area
- Adhesives must not be exposed to freezing temperatures
- Read technical data sheets and material safety data sheets for adhesive

Note: Rubber will expand and contract with temperature and humidity changes. (See "Before Installation" section.)

Petroleum distillates will damage tiles (e.g. solvents, chlorine, acidic chemicals). Keep Atmosphere™ flooring dry. Wet mats will cause adhesion problems. Improper installation will void warranty.

Tools & Accessories

(A) Tools and safety equipment required:

Rubber gloves	Measuring tape
Safety glasses	Linoleum roller (50 - 70 lb)
Rubber boots	Straight edge
Knee pads	Chalk line
Utility knife	V-notch trowel 1/16" (1.6mm)

B) Outside interlocking edges

With interlocking tiles, To Market™ includes approximately 10% of the outside edging with every order, unless otherwise requested. This edging gives the interlocked tile a straight edge so reducer strips can be applied. It can also be used against walls, where possible, to avoid having to cut tabs off.

C) Reducer strips (If Applicable)

To Market™ inventories 2 types of reducer strips:

- 5/16" (8 mm) black solid core – 12' lengths
- 3/8" (10 mm) black solid core - 12' lengths

Attach reducer strip to tiles with compatible adhesive or caulking, non-solvent based.

D) Adhesive

To Market™ inventories the following recommended adhesive:

- Chemrex CX 941 Polyurethane (single component) "VOC Compliant" – 2 gal. kit (approximate spread rate is 150 square feet per kit using 1/16 v-notched trowel).
- Please be sure to follow adhesive manufacturer's instructions and precautions before starting.
- Please read adhesive manufacturer's label to insure that the proper adhesive is used.

If adhesive should freeze accidentally, please call To Market™ before use. **Toll Free Tel: 1-866-772-4772.**

E) Sealer

For most installations it is not necessary to seal or coat Atmosphere™ Recycled Rubber Flooring. Use of a sealer is based on individual customer requirements (please contact a To Market™ sales representative for additional information). Use of unapproved sealers and waxes may alter the surface characteristics of Atmosphere™ and will void the warranty. If a sealer is to be used, please see section marked "Sealer – Application and Maintenance Guide."

Preparation of the Sub-Surface

A) Concrete sub-surfaces

Concrete sub-floors must be thoroughly cured a minimum of 28 days after pour and dry to a level not exceeding 5lbs of moisture per 1000 square foot as tested with a Calcium Chloride test kit. Consult adhesive specifications for allowable moisture tolerance. Concrete sub-floors must be clean and free of all debris, including paints, existing adhesives, dirt, dust, etc. If the concrete surface has a layer of paint, dirt, oil, or contamination, a 25% solution of chemical grade muriatic acid and water (1 part acid to 3 parts water) will create a permanent bond by roughing the concrete surface. Rinse thoroughly and allow to dry. Any separation of concrete layers, heaving, etc. is the sole responsibility of the installer and/or owner.

Concrete must be smooth and level to a tolerance not exceeding 1/8" in 10 linear feet. If existing concrete is rough, or does not meet the 1/8" in 10 linear feet criteria, apply a Portland cement based leveling compound to smooth and level the surface, allowing a minimum of 7 days for curing. If finishing cement is not used, the amount of adhesive required will be greater. Once all surfaces are level, make sure the total surface is clean and dry before starting the installation.

Insure good drainage of the area by having either a well defined gradient of the surface, or well placed drainage pipes in the lower spots.

Important: Moisture is the single greatest cause of bonding failure! The sub-surface must be clean and dry.

A rough or uneven sub-surface will result in an uneven appearance of the rubber flooring.

B) Wooden sub-surfaces

Recommendations for plywood sub-surfaces are as follows:

- Plywood underlayment shall be exclusively COFI EXTERIOR "SELECT TIGHT-FACE" (SEL TF) grade plywood according to the COFI classification and conforming to CSA-0121(B+CC) standard for Douglas fir.
- Plywood surfaces must be installed smooth face up.
- When the subfloor is in direct contact with the ground, the plywood shall have at least an 18" (45 cm) cross-ventilated air space between the underside of the floor and the ground. Under no circumstances shall any floor material be laid over wood or subfloors that are subject to conditions which might cause buckling or rotting of the wood.
- On any soft floor covering installation, the plywood shall be dry and the moisture content shall not exceed 10% when measured with "Delmhorst Wood Moisture Tester."
- Plywood substrates shall consist of a 3/4" (19 mm) thick (minimum) plywood underlayment. Each sheet of plywood is to be spaced 1/16" (1.6 mm) apart. For additional information, refer to Table I in "Recommended installation specification for sheet vinyl flooring, flat laid, fully adhered to the floor" published by the Resilient Floor Covering Institute or to the NFCA's floor covering specifications manual.

Note: Wooden sub-surface installations are the sole responsibility of the installer, general contractor, or owner.

Before Installation:

Rubber will expand and contract with temperature and humidity changes and a tile laid in the morning hours at 32°F (0°C) would be a different size than a tile laid at 68°F (20°C) later in the day. Therefore, before starting the installation, lay out ALL the tiles you will be installing on the next day, on or near the sub-surface. Allow tiles to equalize to ambient temperature.

The sub-surface must be level, clean, and dry. It is recommended that all concrete slabs be tested for moisture using Calcium Chloride test kit.

During storage, Atmosphere™ Recycled Rubber Flooring tiles must be kept dry, and adhesive must be stored above 50°F (10°C) in a dry, heated space. If adhesive should freeze accidentally, please call To Market before use. Toll Free Tel: 1-866-772-4772.

Check the room temperature.

a) Temperature range for adhesive use: above 50°F (10°C) and below 104°F (40°C)

b) In-floor radiant heat should be shut OFF. Glue will dry too quickly resulting in adhesion problems.

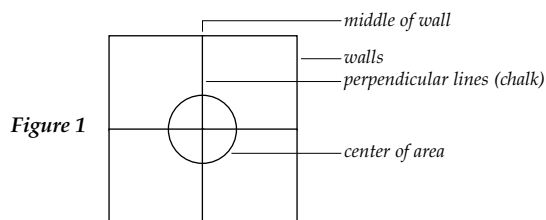
Higher temperatures will increase the curing rate and reduce the working time (pot-life) of the adhesive. **Please follow instructions on label of can!**

Installing Atmosphere™ Flooring

A) Arranging the tiles

NOTE: The installation contractor should have all relevant information regarding tile arrangement from designer/architect or end-user prior to the start of installation.

Occasionally uneven distribution of color granules may appear in a tile. Turning the mat over or installing it in a less visible area can rectify this issue.



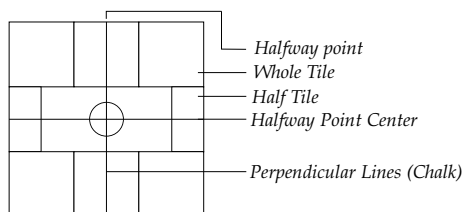
Establish a starting course by finding the mid-point on all four walls. Use a chalk line and mark the two center lines across the whole area. Use the perpendicular chalk line as your starting point to lay out the tiles (see figure 1).

B) Total glue down on hard surfaces (e.g. concrete, wood)

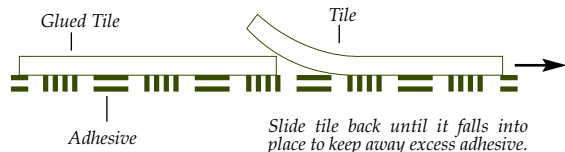
This installation method is a must for ice arenas.

Advantages

- Mechanical stability (minimum expansion and contraction)
- Safety precautions



Make two chalk lines on either side of the center line (see above), and measure the size of the Atmosphere™ tile (38") or the size of any custom manufactured tile. Start first row by laying a tile between center line and the chalk line. Start second row on either side of the center line towards the chalk line. Make sure that second row is installed by employing the running bond or ashlar method of staggering the tiles. This will avoid any four corners from meeting at one spot.



Installation tip:

Put the tile that your installing on top of the tile already glued down and slide towards the area you want to fill until the tile falls into place, then firmly press tile up to edge of existing tile. This will keep excess adhesive from protruding up between the seams, resulting in a cleaner finish. Do not allow adhesive to build up between seams or be spilled on the surface of the tiles. This is achieved through care and the use of the proper amount of adhesive. Do not tape seams.

Roll each row when finished and roll total floor when completed. Roll floor in both directions. Avoid traffic on newly installed tiles. Epoxy adhesive is slippery when first spread and tiles will shift position even if only slightly disturbed. NO foot traffic of any kind should be allowed on tiles for the next 8-12 hours (for ice rink or golf installations, 24 hours for ice skate blade and golf shoes...72 hours for maximum strength).

A 50 to 70 pound roller should be used to ensure the underside mat surface is fully bonded to the glue and sub-floor. Too much rolling or too heavy a roller will cause the tiles to stretch. When this happens the tiles will tend to return to their natural/original size before the glue dries causing a small gap to appear between the mats.

- Guideline:**
- 4mm thick floor: use a 50 lb. roller.
 - 6mm thick floor: use a 50 lb. roller.
 - 8mm thick floor: use a 70 lb. roller.
 - 10mm thick floor: use a 70 lb. roller.

Do not allow adhesive to cure on your hands or the flooring. Immediately wipe off excess adhesive using a damp cloth with mineral spirits (use sparingly and only on the adhesive itself) as mineral spirits will slightly change the surface appearance of the tile. We strongly suggest wearing gloves when applying adhesive.

C) Interlocking system

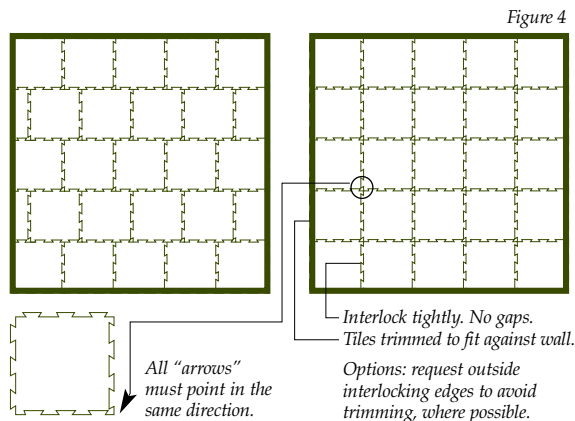
This method is for indoor, totally dry areas only.

Advantages

- reversible, thus doubling the life of the floor
- no adhesive required
- easier, faster installation
- removable

There are a few different options for the installation of the interlocking tiles. It is not necessary to stagger the interlocking tiles, although you may feel this will give you the appearance you desire (see figure 4).

The staggered method is recommended to provide higher stability. When installing interlocking tiles, make sure the interlocks are tight with no gaps showing. If they are not kept tight, the tiles will not line up and the interlocking pattern will be distorted (out of alignment).



1. Make sure that all tiles are laid down with the "arrow" pointing in the same direction (see Figure 4).
2. The interlocking tiles are delivered with outside interlocking edge pieces. The strips can be used to butt tiles up tightly against a wall. The other option is to trim off the interlocking tabs for a snug fit.
3. Atmosphere tiles (square cut or interlocking) should not be laid on top of carpet as the floor will shift and move.

Sealer

Atmosphere™ Recycled Rubber Flooring – Sealer Application and Maintenance Guidelines

Recommended Products: TASKI Vision (tile finish sealer)

TASKI ICE-IT (amine floor stripper)

A) Initial application of sealer

Ensure that Atmosphere™ flooring is thoroughly clean prior to applying sealer by vacuuming, damp mopping with warm water and a neutral pH detergent. Allow to dry completely before applying sealer. Apply 3 thin coats of Taski Vision using a fine nap synthetic paint roller. Allow approximately 30-45 minutes in normal humidity before applying next coat.

B) General Maintenance (sealed floor)

Approximately once per week, sweep or dry vacuum and damp mop using warm water and a neutral pH detergent at 1oz per gallon. (Follow the neutral pH detergent manufacturer's instructions for use.) Heavy duty cleaning as needed (sealed floor). Dry vacuum floor thoroughly.

Wet scrub floor with TASKI Profi (4 oz/gal). This application is done with an autoscrubber or buffer and wet vacuums. Use TASKI purple pad for scrubbing the floor.

Allow solution to remain on the floor for 5 minutes. Wet vacuum soiled solution. Rinse and allow to dry (1-2 hours). Apply 1-2 thin coats of TASKI Vision Matte using wet buffing with soft nylon brush.

A few tips about sealers when working with rubber floors:

Use high suction CFM (cubic feet per meter) vacuum to pick up dust. Wait for floor to dry between applications of floor finish or sealer. Apply floor finish (thin coats) with wax mop and follow floor buffer with a soft nylon brush. For large areas, use an autoscrubber with a contact pad or soft nylon brush to clean the floor daily. For stripping a rubber floor, use TASKI Ice-It and nylon brush. For poorly maintained floors, it may be necessary to continue cleaning with Ice-It for an extended period. For food areas: cleaning should be done with Profi (2-4 oz/gal). Removing gum: use a generic gum remover. For areas with high traffic, floors may be top scrubbed and recoated as needed. Proper care of your Atmosphere™ Floor will ensure a long lasting surface.

General Cleaning & Maintenance (no sealer)

Typically, Atmosphere™ Rubber Flooring requires less maintenance than other types of flooring. Clean and maintain on a regular basis as required. Vacuuming then damp mopping is the preferred method, very little or no detergent is necessary. Change water frequently. Sealing or coating is not necessary and is based purely on the customer's preference. Products containing solvents and acids will attack the composite structure of the Atmosphere™ Flooring and cause deterioration. Sealants and waxes can alter the surface characteristics and appearance of the Atmosphere™ flooring. To Market, Inc. does not assume any responsibility of additives causing damage to its surfacing.

For fitness center applications:

When cleaning fitness equipment with disinfectant, or other strong cleaners, be careful that overspray or excess cleaner does not drip onto the rubber flooring. Strong chemicals may cause the surface to deteriorate, reducing the life of the floor.

To Market, Inc. suggests rotating the interlocking tiles from high traffic areas to lower use areas to further extend the life of the floor.

B) For ice arena applications:

Use a neutral pH cleaner, e.g. 7-8. Then use a cleaner, e.g. "Taski", (the "Profi" solution—3 to 4oz. per gallon of water). A low RPM scrubber, e.g. between 200-300 revolutions per minute, e.g. "Clark". Use a soft nylon brush, e.g. bristles 1½" - 2" long.

Note: To find out if a brush is too hard, test it on the back of your hand. If your hand hurts, use a softer brush.

The ideal machine to use is one that combines all steps, i.e. vacuum, wash, rinse, dry. (e.g. Whittaker)

If a scrubber machine is used, these steps should be taken:

Mix soap with water. Use synthetic fiber mop to dampen floor. Let solution act, (approx. 10 minutes). Use scrubber machine. Use clear water to rinse. Remove excess water for quicker drying.

Note: To maintain the nice appearance of the Atmosphere™ flooring, dirty water must be completely removed.

Disclaimer

The installation guidelines in this manual represent a typical installation work procedure. Proper installation is the responsibility of the installer. Every site is different and To Market LLC does not claim to have covered all possible installation circumstances in these guidelines.

To Market LLC does not warrant any installation work not directly performed by To Market LLC and specifically disclaims liability for any direct or indirect personal injury, property damage or other costs or losses resulting from installations or applications by third parties. Please see the Atmosphere™ "Limited Warranty" in architectural books for particulars of warranty coverage.



For information, please contact your To Market sales Representative or for additional technical assistance call Bill Neifert at To market, Inc.

(800) 604-4046 or (877) 843-8184

www.ToMkt.com

www.Atmosphererecycledrubberflooring.com

Weights & Measures

General packaging information: All products are packaged on wooden pallets, with corner protectors, polyethylene shrink wrap, and steel strapping (when necessary).

Flooring

Dimensions

Square cut: 38"x38" (965 mm x 965 mm) 10.02 sq. ft.

Interlocking: 37"x37" (940 mm x 940 mm) 9.5 sq. ft.

<u>Thickness</u>	<u>Typical weight per tile</u>	<u>Tiles per pallet</u>
5/32" (4mm)	10 lbs.(3.74 kg)	200
1/4" (6 mm)	16 lbs (7.3 kg)	150
5/16" (8 mm)	20 lbs (9 kg)	120
3/8" (10 mm)	23 lbs (10.5 kg)	100
<i>Pallet</i> (net wt.)	65 lbs (29.5 kg)	

D) Adhesive:

2) Chemrex Polyurethane 941 (V.O.C. Compliant)

- 1 component polyurethane adhesive
- 2 gallon kit: 27 lbs (12.5 kg)
- approximate coverage: 150 square feet per kit using a 1/16" (1.6 mm) trowel

Note: Weights and measures are approximate and may change without notice.

Conversion chart:

1" = 2.54 cm

1' = 30.48 cm

39.4" = 1m