



## Installation Instructions -- RESILIENT TILE FLOORING -- EcoScore

### **Endura EcoScore™ Multifunctional Athletic Flooring Installation Instructions**

#### **Introduction**

Endura EcoScore Multifunctional Athletic Flooring is designed specifically for weight room, aerobic, and other high impact applications. However, EcoScore Multifunctional Athletic Flooring can be used in any commercial interior environment.

EcoScore is manufactured utilizing a unique process that vulcanizes a 1/8" thick, sculptured high performance wear layer to a 1/4" backing layer of recycled truck tire rubber. This creates a tough, abrasion and impact resistant tile with excellent slip-resistant, fatigue, and acoustical characteristics.

The highest quality of materials and workmanship are employed in the manufacture of EcoScore Multifunctional Athletic Flooring and careful inspection is made before shipment. However, a quality installation is the responsibility of the installer. It is the installer's responsibility to verify the accuracy of the order and the materials checked for damage, defects, and satisfactory color match during the dry laid installation. An authorized Endura distributor or Endura representative must be notified of any nonconformance before final adhesive application proceeds.

Endura cannot accept any responsibility for the loss or damage that may result from the use of this information, due to processing or working conditions and/or workmanship outside our control. Users are advised to confirm the suitability of this product by their own tests.

**NOTE:** The fit and finish of this tile is equal to, or better than other similar athletic tiles in the market. However, it is not to be expected that the overall fit and finish of this extraordinarily dynamic material will be similar to resilient flooring for commercial interior finishes. That is, thickness tolerances, squareness tolerances and edge exposure between tiles are greater for athletic tile than commercial interior flooring.

Endura EcoScore Multifunctional Athletic Flooring is for interior installations only. It is not recommended for environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials. (i.e.: commercial kitchens).

## Handling and Storage

1. Endura EcoScore Multifunctional Athletic Flooring and adhesives must be site conditioned at room temperature for 72 hours prior to, during, and after the installation. Room temperature must be maintained between 65° and 75°F (18° and 24°C) and relative humidity at 50%.
2. In rooms that are exposed to intense or direct sunlight, the product must be protected during the conditioning, installation, and adhesive curing periods, by covering the light source.
3. Endura EcoScore Multifunctional Athletic Flooring is not recommended for exterior use. Exposure to excessive UV rays can result in fading and/or color variation.

## General Sub-Floor Preparations

1. All sub-floors must be clean, smooth, flat to within 3/16" in 10 ft., and dry. Dust, scale, and loose particles must be removed. The surface must be free of solvents, paint, grease, oil, wax, alkali, sealing/curing compounds, and any other foreign material, which could affect adhesive bonding. All concrete floors should be prepared in accordance with ASTM F-710 *Standard Practice for Preparing Concrete Floors for Resilient Flooring*.

**Do not install** Endura EcoScore Multifunctional Athletic Flooring over expansion joints or in areas where the product will be exposed to animal fats/greases, vegetable oils or petroleum based products.

2. **Concrete subfloors** must be checked for moisture content. The test shall be in accordance with ASTM F-1869 *Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. One test should be conducted for every 1000 sq. ft. of flooring and the results not exceed 3 lbs. per 1000 sq. ft. in 24 hours. If the test results exceed the limitations, the installation must not proceed until the problem has been corrected.

An adhesion bonding test of the actual materials to be installed should be performed, every 1000 sq. ft., utilizing a 12" x 12" piece of tile. The test pieces should remain in place for 72 hours and then evaluated for bond strength to the substrate.

Alkali must be removed by mechanical means. (i.e.: bead blasting, sanding, or grinding). Fill all depressions, cracks, and other surface irregularities with good quality cement based underlayment or patch with a minimum of 3,000 psi.

3. **Wood sub-floors** must have a minimum 18 inches (47 cm) of cross-ventilated space between the bottom of the joist and ground. Exposed earth crawl spaces should be covered with a polyethylene moisture barrier. Wood joists should be on 16" (41 cm) centers with 1" (2.5 cm) boards installed diagonally and covered with 1/2" (12.7 mm) A.P.A. Approved underlayment plywood. Nail on 4" (10.2 cm) centers around perimeter and across field. Countersink nail heads. Fill all depressions, joints, cracks, gouges, and chipped edges with a good quality cement based patching compound. Sand surface smooth.

Single Wood and Tongue and Groove sub-floors should be covered with 1/2" (12.7 mm) or 3/4" (19 cm) A.P.A. Approved underlayment plywood.

#### 4. **Wood Sub-Floor PRECAUTIONS:**

Endura does not warrant glue down installations of EcoScore over "particle board" or "chipboard" type underlayments.

**Endura does not recommend nor warrant "glue down" rubber tile installations over existing resilient floors.** All resilient flooring and adhesives must be removed prior to installing the rubber flooring system. The Resilient Floor Covering Institute's (RFCI's) recommended work practices for the removal of existing resilient floor coverings should be consulted for a defined set of instructions addressing the removal of all resilient floor covering structures. **Caution:** Some resilient flooring products and adhesives contain "asbestos fibers" and special handling of this material is required.

5. **Terrazzo and Ceramic Floors** - The floor surface must be thoroughly sanded to remove all glaze and waxes. Remove all loose tiles and clean the grout lines. Fill all grout lines and other depressions with a cement based leveling or patching compound with a minimum 3,000 psi.

6. **Existing Steel Floors** - The surface must be thoroughly cleaned by sandblasting, wire brush or other mechanical means to remove all rust, paint and other contaminants.

7. **Concrete floors equipped with a radiant heating system,** care must be taken that the floor surface temperature does not exceed 85° F (30° C) 24 hours prior, during or after installation. The floor surface temperature should remain between 60° F and 75° F during installation. After the adhesive is properly cured radiant heating systems can be operated within their specified heating ranges.

## **EcoScore Multifunctional Athletic Floor Tile Installation Glue-Down Applications for Permanent Installations**

1. **Endura EcoScore Multifunctional Athletic Floor Tiles must be dry laid prior to adhesive installation.** Start at the center of the room and position the tiles point to point running parallel to the adjacent tile. Make all final cuts around room perimeter, alcoves, offsets, and other obstructions.

2. After the entire floor has been dry laid, view the floor under normal, occupied lighting conditions.

It is the installer's responsibility to inspect the dry laid installation and notify the appropriate authority of any imperfections or irregularities prior to final adhesive installation. Any material installed with obvious visual defects will be the responsibility of the installer.

3. Only BurkeMercer BR-725 Two-Part Urethane adhesives or BR- 710 One Part Urethane Adhesives are approved for installing Endura EcoScore Multifunctional Athletic Flooring.

4. See adhesive label for mixing directions and subfloor porosity conditions. After proper mixing, apply adhesive to subfloor.

Average Coverage Rates:

Both recommended adhesives are to be applied with a 1/16" Square Notch Trowel and covers approximately 120 sq. ft. per gallon. Coverage can vary depending on substrate surface roughness, trowel wear and application technique.

Remove wet adhesive at seams or off tile surface with a cloth dampened with rubbing alcohol or water. **Caution:** Urethane adhesives must be removed when wet. The removal of dried adhesive can result in tile damage.

5. Position the tile and butt the edges. Note that applying excessive force when butting the tile edges can result in overlapping the edge along the seams and creating an uneven floor surface. Lower the tiles into the adhesive. Sliding the tiles will result in forcing the adhesive out between the seams. Work off the tile surface or use a kneeling board. Periodically, lift the corner of an installed tile to ensure proper transfer of the adhesive.

6. After all tiles have been installed, roll the floor, in both directions, with a 100 lb. 3-section roller. Roll a second time one hour later. Inspect the floor 2-1/2 hours after installation and roll a third time, if necessary. Use a hand roller in areas that

cannot be reached with a large roller. After rolling, inspect floor surface, especially seams, and remove any adhesive on the surface.

7. Avoid all traffic for at least 12 hours and only limited light traffic for a period of 72 hours after the installation. Do not allow rolling load traffic on the floor until after a minimum of 72 hours. Avoid cold or excessive heat, including direct sunlight during this 72 hour period.