

Johnsonite®

Terra-Turf® Rubber Flooring

Installation Instructions

Introduction

Johnsonite Terra-Turf Floor Tiles are manufactured from recycled aircraft and truck tires. This highly resilient, spike-proof material is ideal for high-trafficked areas such as ramps, foyers, concourses, golf pro shops, entrances, skating rinks, airports, schools, and shopping malls, as well as, other health care, hospitality, retail and office environment applications.

This long-wearing product has a non-skid surface which exceeds A.D.A. slip-resistant recommendations for ramps and flat surfaces.

The highest quality of materials and workmanship are employed in the manufacture of Johnsonite Terra-Turf Rubber Floor Tiles 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 be checked for damage, defects, and satisfactory color match during the dry laid installation. An authorized Johnsonite distributor or Johnsonite representative shall be notified of any nonconformance before final adhesive application proceeds.

Johnsonite 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.

Johnsonite Terra-Turf Rubber Floor Tiles are for interior and exterior installations, but 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

Johnsonite Terra-Turf Rubber Floor Tiles and adhesives must be site conditioned at room temperature for 24 hours prior to installation. **Do not install below 60° F.**

General Surface Preparations

1. All subfloors must be clean, smooth, 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.

Do not install Johnsonite Terra-Turf Rubber Floor Tiles over expansion joints or in environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials. (i.e.: commercial kitchens)

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 concrete.

Excessive 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 cementitious underlayment filler.

3. **Wood subfloors** 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 latex patching compound and sand entire surface smooth.

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

Johnsonite does not warranty installations over "particle board" or "chipboard" type underlayments.

Johnsonite does not recommend nor warrant rubber tile installations over existing resilient floors. All resilient flooring and adhesives must be removed prior to installing the rubber flooring system.

Caution: Some resilient flooring products and adhesives contain "asbestos fibers" and special handling of this material is required.

4. **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 cementitious leveling compound.
5. **Steel floors** - The surface must be thoroughly cleaned by sandblasting, wire brush or other mechanical means to remove all rust and other contaminants. Paint the surface with an anti-corrosive coating (i.e.: Sherwin Williams "Kromik Metal Primer" or equivalent) to prevent rust from recurring.
6. **Concrete floors equipped with a radiant heating system**, care must be taken that the floor surface temperature does not exceed 85⁰ F (30⁰ C) during normal operation.

Terra-Turf Rubber Tile Installation

1. **Johnsonite Terra-Turf Rubber Floor Tiles must be dry laid prior to adhesive installation.** Mark area to be covered with chalk-line or pencil.
2. After determining pattern, dry lay tiles to ensure proper fit. View the floor under normal 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.**

3. Only Johnsonite's #986 Terra-Turf Adhesive is approved for installing Johnsonite Terra-Turf Rubber Floor Tiles.

Important: This adhesive is substrate porosity sensitive. Determine if the substrate is porous or non-porous prior to application of adhesive and installation of flooring products and follow the appropriate instructions.

Determining substrate porosity: Place a few drops of water on the surface. If the water is absorbed into the substrate within a few seconds, the surface is porous; if it beads up, the surface is non-porous.

Installation Over Porous Surfaces: When installing Terra-Turf on a porous substrate, spread adhesive with a 3/32" x 3/32" x 3/32" V-notched trowel directly from the container. Remove the release paper from the back of the tiles and position the tiles butting the edges tightly. Lay tiles immediately into wet adhesive layer after troweling. Occasionally lift corner of tile to ensure proper transfer of adhesive. Immediately after installation, roll entire floor surface with 100 lb. 3-section roller. Inspect floor surface, especially seams, and remove any adhesive on the surface. Avoid all traffic for at least 12 hours after installation. Do not expose the installed tiles to water or moisture for 96 hours after installation. Remove wet adhesive with a clean cloth dampened with water.

Installation Over Non-Porous Surfaces: When installing Terra-Turf on a non-porous substrate, spread adhesive with a 3/32" x 3/32" x 3/32" V-notched trowel and allow the adhesive to dry to the touch with little or no transfer to the finger. Once the adhesive reaches the "dry to the touch" state, remove the release paper from the back of the tiles and position the tile butting the edges tightly. Install the Terra-Turf tiles into the adhesive layer and immediately roll entire floor surface with 100 lb. 3 section roller. Avoid all traffic for at least 12 hours after installation. Do not expose the installed tiles to water or moisture for 96 hours after installation. Remove dried adhesive with a clean cloth dampened with mineral spirits.

4. If on-grade, install Johnsonite #CRS-XX-B Reducer Moulding around perimeter with Johnsonite #945 Contact Bond Adhesive.

Maintenance

Refer to Johnsonite Terra-Turf Rubber Flooring Maintenance Instructions for complete maintenance instructions.

If questions arise that have not been addressed in the brochure, contact your local Johnsonite distributor for assistance or Johnsonite Customer Service at 1-800-899-8916.

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