

# Johnsonite®

## Replay™ Rubber Multi-functional and Sports Flooring

### Installation Instructions

#### Introduction

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Johnsonite Replay Rubber Multi-functional and Sports Flooring is designed specifically for weight room, aerobic and other high-impact applications. In addition, the product is skate- and spike-resistant and can be installed in skating arenas and golf course applications. Replay Rubber Multi-functional and Sports Flooring is manufactured from recycled automobile and truck tire crumb rubber encapsulated in a urethane binder, which creates a tough, abrasion- and impact-resistant composition with excellent slip-resistant, fatigue and acoustical characteristics.

The highest quality of materials and workmanship are employed in the manufacture of Johnsonite Replay Rubber Multi-functional and Sports 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 to check the materials 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 Replay Rubber Multi-functional and Sports Flooring is for interior installations only and is not recommended for environments where the product will be exposed to animal fats, vegetable oils or petroleum-based materials (i.e., commercial kitchens).**

**Ice Rink Applications Only: This product is not warranted against premature deterioration in specific ice rink applications such as penalty boxes, concession stands, changing rooms, entrances and exits to and from the ice rink itself. It is highly recommended that skate guards be worn in such areas to extend the life of the floor.**

#### Handling and Storage

1. Johnsonite Replay Rubber Multi-functional and Sports 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.

## General Subfloor Preparations

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1. **All subfloors** must be clean, smooth, flat to within 1/8" 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.

**Do not install** Johnsonite Inertia Rubber Multi-functional and Sports 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 a 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. **Existing 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.

**Note:** The red iron oxide primer on new steel floors does not have to be removed.

6. **Concrete floors equipped with a radiant heating system**, care must be taken that the floor surface temperature does not exceed 85<sup>0</sup> F (30<sup>0</sup> C) during normal operation.

## **Replay Sheet Flooring Installation**

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### **Dry Laying, Cutting and Fitting**

1. **Johnsonite Replay Rubber Multi-functional and Sports Sheet Flooring must be dry-laid prior to adhesive installation.**
2. Assume that the walls you are butting against are not square or straight. Use a chalk line that is perfectly square in the room for an edge of the flooring to follow.
3. Remove the flooring material from the shrink-wrap and unroll it onto the floor. Lay the flooring material on the floor that will utilize your cuts efficiently to minimize cutting and waste. Precut all rolls at the required length, including sufficient material to run up the wall and overlap for seaming at each end. All long seams are factory trimmed, but all head seams must be overlapped and cut by the installer using a sharp utility knife and straightedge.

Each roll is clearly marked with a label on the bottom side of the roll. Unroll each roll in the same direction following the labels on the bottom side of each roll. Do not start one roll from one side of the room and another adjacent roll from another side of the room.

4. Unroll and place the edge of the first roll along the chalk line.
5. Unroll the next roll, overlapping the long seam of the first roll by no more than 1/16". This procedure will ensure a tight seam.
6. Repeat this procedure for each consecutive roll necessary to complete the area.
7. **Roll material is stretched slightly during the manufacturing process; therefore, the installer must allow the material to relax after dry laying for a minimum period of 12 hours (24 hours preferred) to adjust to room temperature prior to final cutting and adhesive application.**
8. 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.**

### **Adhesive Application and Final Cutting**

1. After performing the above procedures, make all final cuts around room perimeter, alcoves, offsets and other obstructions.
2. Only Johnsonite's #965 Acrylic or #975 Two-Part Urethane adhesives are approved for installing Johnsonite Replay Rubber Multi-functional and Sports Sheet Flooring.

Johnsonite's #965 Acrylic Adhesive is a water-resistant adhesive and Johnsonite's #975 Urethane Adhesive is a waterproof adhesive. Use the #975 Urethane in areas that may have excessive surface water exposure (i.e., shower and locker rooms, therapeutic, swimming pool and other similar areas).

**Caution: #965 Acrylic latex adhesive is substrate porosity-sensitive. Determine subfloor porosity and follow the specific label instructions regarding porous and non-porous substrate drying times prior to the installation.**

3. After proper mixing (#975 Urethane only), apply adhesive to the subfloor using the following:

For porous and non-porous substrates:

#965 Acrylic – 1/8" x 1/8" x 3/32" U-Notch Trowel – 85 sq. ft. per gallon.

#975 Urethane – 1/16" Square Notch Trowel – 150 sq. ft. per gallon.

See adhesive label for mixing directions and subfloor porosity conditions. Remove wet adhesive at seams or off surface with a cloth dampened with rubbing alcohol or water.

**Caution:** Urethane adhesives must be removed from the surface of the flooring when wet. The removal of dried adhesive may result in flooring product surface damage.

4. Fold over the first drop along the wall (half the width of the roll). Spread the adhesive, using the proper size notch trowel, as outlined above. Lay the flooring into the adhesive. Do not allow the material to “flop” into place, as this may cause air entrapment beneath the flooring. Immediately roll with a 100-lb. three-section roller to ensure proper adhesive transfer, overlapping 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. Roll again 60 minutes later. Use a hand roller in areas which cannot be reached with a large roller.
5. Fold over the remaining half of the first roll and half of the second roll. Full spread the adhesive perpendicular or at right angles to the seam to minimize the adhesive from oozing up through the seam. Lay the remaining half of the first roll into the adhesive followed by the first half of the second roll. Work the overlap of the second roll into the seam to ensure a tight fit. Immediately roll with a 100-lb. three-section roller to ensure proper adhesive transfer, overlapping 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. Roll again 60 minutes later. Immediately remove any wet adhesive that may have been on the flooring surface with a cloth dampened with water or denatured alcohol.
6. Follow the above procedures for the installation of all remaining sheets of flooring material.
7. After all sheets have been installed in the area, re-inspect floor surface, especially at seams, and remove any adhesive on the surface. Inspect the floor 2-1/2 hours after installation and roll a third time if necessary.

**For glue-down flooring products, 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 roller traffic on the floor until after a minimum of 72 hours. Avoid cold or excessive heat, including direct sunlight, during this 72-hour period.**

## Replay Rubber Floor Tile Installation

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1. **Johnsonite Replay Rubber Multi-functional and Sports 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. Each tile is clearly marked with a label to identify the back of the 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 -aid installation and notify the appropriate authority of any imperfections or irregularities prior to final adhesive installation.**

3. Only Johnsonite's #965 Acrylic or #975 Two-Part Urethane adhesives are approved for installing Johnsonite Replay Rubber Multi-functional and Sports Floor Tiles.

Johnsonite's #965 Acrylic Adhesive is a water-resistant adhesive and Johnsonite's #975 Urethane Adhesive is a waterproof adhesive. Use the #975 Urethane in areas that may have excessive surface water exposure (i.e., shower and locker rooms, therapeutic, swimming pool and other similar areas).

**Caution: #965 Acrylic latex adhesive is substrate porosity-sensitive. Determine subfloor porosity and follow the specific label instructions regarding porous and non-porous substrate drying times prior to the installation.**

4. After proper mixing (#975 Urethane only), apply adhesive to subfloor.

For porous and non-porous substrates:

#965 Acrylic – 1/8" x 1/8" x 3/32" U-Notch Trowel – 85 sq. ft. per gallon.

#975 Urethane – 1/16" Square Notch Trowel – 150 sq. ft. per gallon.

See adhesive label for mixing directions and subfloor porosity conditions. Remove wet adhesive at seams or off tile surface with a cloth dampened with water or denatured alcohol.

**Caution:** Urethane adhesives must be removed from the surface of the flooring when wet. The removal of dried adhesive may result in tile damage.

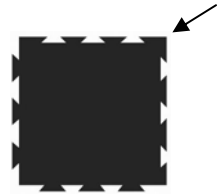
5. Position the tile and butt the edges tightly. Lower the tiles into the adhesive. Sliding the tiles will result in forcing the adhesive out between the seams. Work off the tile surface or use a kneeling board. Periodically, lift the corner of an installed tile to ensure proper transfer of the adhesive.
6. After all tiles have been installed, roll the floor in both directions with a 100-lb. three-section roller. Roll a second time one hour later. Use a hand roller in areas which cannot be reached with a large roller. Reinspect floor surface, especially seams, and remove any adhesive on the surface.

**For glue-down flooring products, 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 roller traffic on the floor until after a minimum of 72 hours. Avoid cold or excessive heat, including direct sunlight, during this 72-hour period.**

## Replay Interlocking Tile Installation

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1. Square up room and install Interlocking tiles with directional arrows in the upper right hand corner. Each tile is marked with a label to identify the back of the tile. Make all final cuts around room perimeter, alcoves, offsets, and other obstructions.



2. After all tiles have been installed, roll the floor, in both directions, with a 100-lb. three-section roller.

## Maintenance

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Initial cleaning should not be performed until 72 hours after installation. Refer to Johnsonite Replay Multi-functional and Sports Flooring Maintenance Instructions for complete maintenance details.

To support our customers' maintenance program, Johnsonite recommends the use of TASKI cleaning products. For specific maintenance advice, please contact TASKI at 1-800-827-5487 (USA and Canada calls).

# Johnsonite®

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