

Product Specification

Section 096519

Triumph™ Multi-Functional & Sports Rubber Tiles

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. Proprietary Product: Triumph Rubber Multi-functional and Sports Floor Tiles designed specifically for weight room, ice rinks. and other high impact applications. Skate-and-spike resistant product.

1.2. Manufacturer:

 Johnsonite, Inc.
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1.3. Proprietary Product Description:

1.3.1. Construction: Johnsonite Triumph Rubber Multi-functional and Sports Floor Tiles are manufactured of dual durometer layers composed of 100% synthetic and natural rubber, high quality additives, and colorants to meet the performance requirements of ASTM F-1344, Class 1-A and 1-B Standard Specification for Rubber Floor Tile..

Johnsonite Triumph Rubber Multi-functional and Sports Floor Tiles are available in Speckled Colorways or Solid Colors. Surface textures include Hammered and Weathered (grained) surface options coupled with the product's unique two-ply vulcanized construction, which incorporates a highly-resilient rubber wear layer and an elastic cushioned performance layer. This tough, abrasion and impact resistant composition has excellent slip-resistant, fatigue, and acoustical characteristics.

All Johnsonite Triumph Rubber Multi-functional and Sports Floor Tiles are designed for interior applications only and not recommended for environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials (e.g.: commercial kitchens).

1.3.2. Physical Characteristics:

Square Tiles (glue down tiles): 24" \times 24" (61 cm X 61 cm), .375" (9.5 mm) thickness, wear layer thickness of 0.090" (2.3 mm), 13.3 lbs (6.0 kgs) per tile, 40 lbs (18 kgs) per carton, 3 tiles per carton [12 ft² (1.1 m²)], 4 ft² per tile

Interlocking Tile (Loose lay): 24" x 24" (61 cm X 61 cm) net, .375" (9.5 mm) thickness, wear layer thickness of 0.090" (2.3 mm), 12.6 lbs. (5.7 kg) per tile, 38 lbs (17.2 kgs) per carton, 3 Interlocking tiles per carton [10.5 ft² (.99 m²)], 3.52 ft² per tile

UnderLockTM Tile (Loose lay): 24" x 24" (61 cm X 61 cm) net,, .375" (9.5 mm) thickness, wear layer thickness of 0.090" (2.3 mm), 12.8 lbs (5.8 kgs) per tile, 38 lbs (17.2 kgs) per carton, 3 UnderLock tiles per carton [12 ft² (1.1 m²)], 4 ft² per tile

SlideLockTM Tile (studded back): 24" x 24" (61cm x 61cm) net, .375" (9.5 mm) thickness, wear layer thickness of 0.090" (2.3 mm), 12.8 lbs (5.8 kgs) per tile, 38 lbs (17.2 kgs) per carton, 3 SlideLock tiles per carton [12 ft² (1.1 m^2)], 4 ft² per tile

1.3.3. Styles:

SMH - Triumph Hammered Surface Rubber Multi-functional and Sports Floor Square Edge Tiles

SMHI - Triumph Hammered Surface Rubber Multi-functional and Sports Floor Interlocking Tiles

SMHSL- Triumph Hammered Surface Rubber Multi-functional and Sports Floor SlideLock Tiles

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- Abrasion Resistance: ASTM D 3389 less than 1 gram weight loss.
- Acoustical: ASTM E 492 (Impact Insulation Class) 46 IIC.
- Slip Resistance: ASTM D 2047 Meets or Exceeds a static coefficient of friction of 0.8.
- Basketball Recovery: DIN 18032 99%.
- Static Load Limit: ASTM F 970 Passes at 250 PSI.
- Fire Resistance:
 - o ASTM E 648/NFPA 253 (Critical Radiant Flux) Class 1
 - o ASTM E 662/NFPA 258 (Smoke Density), less than 450
- Chemical Resistance: ASTM F 925 Passes
 5% Acetic Acid, 70% Isopropyl Alcohol, 5% Sodium Hydroxide,
 5% Hydrochloric Acid, 5% Ammonia, Bleach, 5% Phenol, and Sulfuric Acid.

3. INSTALLATION

Johnsonite flooring and adhesives must be site conditioned at room temperature for 48 hours prior to, during, and after installation. Room temperature must be maintained between 65° and 85°F (18° and 30°C) with HVAC system operating. A minimum temperature of 55°F (13°C) must be maintained afterwards. The ambient relative humidity should be between 40% and 60%.

All concrete subfloors must be tested for moisture and pH (alkalinity). Moisture testing must be conducted in accordance with ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using *in situ* Probes" or ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.

Results must not exceed 80% when testing to ASTM F 2170 or exceed 5 lbs. per 1,000 sq. ft. in 24 hours when testing to ASTM F 1869.

If the tests results exceed the limitations, the installation must not proceed until the problem has been corrected.

A pH test for alkalinity must be conducted. Results should range between 7 and 9. If the test results are not within the acceptable range of 7 to 9, the installation must not proceed until the problem has been corrected.



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Wood subfloors must have a minimum 18" (47 cm) of cross-ventilated space between the bottom of the joist and ground. Exposed earth crawl spaces should be sealed with a polyethylene moisture barrier.

Subfloors should meet local and national building codes. Trade associations, such as the APA -"The Engineered Wood Association", offer structural guidelines for meeting various code requirements.

Single Wood and Tongue and Groove subfloors should be covered with 1/4" (6.4 mm) or 1/2" (13 mm) APA approved underlayment plywood. Use 1/4" (6.4 mm) thick underlayment panels for boards with a face width of 3" (76 mm) or less. For boards wider than 3" (76 mm) face width use 1/2" (13 mm) underlayment panels.

Countersink nail heads and fill depressions, joints, cracks, gouges, and chipped edges with a good quality Portland cement based patching compound.

Do not install over OSB (Oriented Strand Board), particle board, chipboard, lauan or composite type underlayments.

Terrazzo and Ceramic floor surface must be thoroughly sanded to remove all glaze and waxes. Remove or replace all loose tiles and clean the grout lines. Use a Portland cement based leveling compound to fill all grout lines and other depressions.

Steel floor surface must be mechanically abraded to assist with the adhesive bond. The floor must be cleaned to remove all dirt, rust and other contaminants. When applying adhesive the non-porous installation instructions must be followed.

An adhesive bond test should be performed using the actual flooring materials and adhesive to be installed. The test areas should be a minimum of 36" x 36" and remain in place for at least 72 hours and then evaluated for bond strength to the concrete.

Concrete floors equipped with a radiant heating system: Turn the heat down to $65^{\circ}F$ ($18^{\circ}C$) for at least 48 hours before installation. Heat may be gradually returned to operating temperature 48 hours after installation. Temperature should not exceed $85^{\circ}F$ ($30^{\circ}C$).

3.1. Adhesives:

- Important: adhesives not recommended for UnderLock or SlideLock tiles.
- Johnsonite 965 Flooring & Tread Adhesive: Porous & Non-porous Substrates: Approximately 75 - 100 sq ft /gal

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

• Johnsonite 975 Two-Part Urethane Adhesive:

Approximately 125 - 150 sq. ft/gal

- Johnsonite SpraySmart 140 Approximately 100 -125 sq. ft. per 22 oz. can
- Installation Manual: Refer to Johnsonite Inertia Rubber Multifunctional and Sports Floor Tiles Installation Instructions for complete installation details.

4. AVAILABILITY AND COST

Available through authorized Johnsonite distributors nationwide.

WARRANTY

Limited 5 year wear warranty. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

MAINTENANCE

- For glue down Square Tiles, 72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to the Johnsonite Rubber Tile maintenance instructions for complete details.
- For UnderLock loose-lay tiles, initial maintenance may be implemented immediately after installation. Refer to the UnderLock maintenance instructions for complete details.
- For SlideLock loose-lay tiles, initial maintenance may be implemented immediately after installation. Refer to the SlideLock maintenance instructions for complete details.

7. TECHNICAL SERVICES

Samples: Submittal samples for verification and approval available upon request from Johnsonite. Samples shall be submitted in compliance with the requirements of the Contract Documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

For current Installation and Maintenance Instructions, Product Specifications, and other technical data visit us on the web at www.johnsonite.com or contact Johnsonite at 1-800-899-8916.