

### Defiant™ Rubber Floor Tile

#### 1. PROPRIETARY PRODUCT/MANUFACTURER

1.1 **Proprietary Product:** Defiant Resilient Rubber Floor Tiles are specifically formulated for areas exposed to oils and greases - A.D.A. Compliant

1.2 **Manufacturer:**

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#### 1.3 Proprietary Product Description

1.3.1 **Construction:** Johnsonite Defiant Rubber Floor Tiles are manufactured from a homogeneous composition of 100% synthetic 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 Rubber Floor Tiles are designed for interior applications only and requires the use of chair pads in work station and similar high caster wheel environments. Johnsonite Defiant Rubber Floor Tiles are not warranted against cuts or lack of protection under caster wheels.

#### 1.3.2 Physical Characteristics:

##### Tile Size and Packaging:

##### **Defiant Round Raised Disk Pattern Rubber Tile (GRRT)**

24" x 24" (61 cm x 61 cm), thickness of .125" (3.17 mm), disk height of .025" (.64 mm), eight (8) tiles per carton – 32 ft<sup>2</sup> (2.9 m<sup>2</sup>), total carton weight of 35 lbs.

##### **Defiant Hammered Pattern Rubber Tile (GRHRT)**

24" x 24" (61 cm x 61 cm), thickness of .125" (3.17 mm), eight (8) tiles per carton – 32 ft<sup>2</sup> (2.9 m<sup>2</sup>), total carton weight of 32 lbs.

##### **PRIMA™ MARBLEIZED Hammered Rubber Tile (GRH RTP)**

12" x 12" (30.5 cm x 30.5 cm), thickness of .125" (3.17 mm), Forty (40) tiles per carton 40 ft<sup>2</sup> (3.7 m<sup>2</sup>), total carton weight of 40 lbs.

#### 1.3.3 Styles:

**GRRT** - Defiant Round Raised Disk Pattern Rubber Tile, .125" (3.17 mm) thickness, Available in 24" x 24"

**GRHRT** - Defiant Hammered Pattern Rubber Tile, .125" (3.17 mm) thickness, Available in 24" x 24"

**GRH RTP** - Defiant PRIMA™ MARBLEIZED Hammered Rubber Tile, .125" (3.17 mm) thickness (Available in 12" x 12")

#### 2. PRODUCT PERFORMANCE AND TECHNICAL DATA

2.1 **Tensile Strength:** ASTM D 412 > 1200 psi

2.2 **Hardness:** ASTM D 2240 - Not less than 80 Shore A

2.3 **Abrasion Resistance:** ASTM D 3389 < 1.00 gm loss

2.4 **Slip Resistance:** ASTM D 2047 – Meets or exceeds 0.8

2.5 **Color Heat Stability:** ASTM F- 1514 < 8.0 ΔE

2.6 **Static Load Limit:** ASTM F 970 – Passes at 250 PSI

#### 2.7 Fire Resistance:

2.7.1 ASTM E 648/NFPA 253 (Critical Radiant Flux) – Class 1

2.7.2 ASTM E 662/NFPA 258 (Smoke Density) – 450 or less

2.8 **Chemical Resistance:** ASTM F 925, Passed – 5% Acetic acid, 70% Isopropyl alcohol, Sodium hydroxide solution (5% NaOH), Hydrochloric acid solution (5% HCl), Sulfuric acid solution (5% H<sub>2</sub>SO<sub>4</sub>), Household ammonia solution (5% NH<sub>4</sub>OH), Household bleach (5.25% NaOCl), Disinfectant cleaner (5% active phenol), Mineral oil, Olive oil, Kerosene

#### 3. INSTALLATION

3.1 The installation of Johnsonite Rubber Floor Tiles should not begin until the work of all other trades has been completed, especially overhead trades. The areas to receive flooring materials shall be clean and fully enclosed. The area should be maintained at a minimum of 65° F and a maximum of 75° F for 48 hours before the installation, during the installation and for 48 hours after the installation is completed. The flooring materials and adhesives shall be conditioned in the same manner. Floor surfaces shall be smooth, flat, permanently dry, clean and free of all foreign material such as dust, paint, grease, oils, solvent, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Floor covering shall not be installed over expansion joints. It is essential that moisture tests be taken on all concrete floors regardless of age and grade level. 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. The flooring shall be dry laid and inspected by the installer, under normal, occupied lighting conditions, to ensure proper color and fit prior to final adhesive installation.

### 3.2 Adhesives:

#### Johnsonite #965 Flooring & Tread Adhesive

**Caution:** Johnsonite 996 Two-Part Epoxy or 975 Two-Part Urethane is recommended for areas where the product will be exposed to excessive amounts of animal fats, vegetable oils, or petroleum based materials.

- **Porous Substrates:** 1/16" square-notched trowel (Coverage: Approximately 125 ft<sup>2</sup> per gallon)
- **Non-Porous Substrates:** 1/16" V-notched trowel (Coverage: Approximately 145 ft<sup>2</sup> gallon)

**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.

#### 3.2.1 Johnsonite #996 Two-Part Epoxy Adhesive

1/16" square notched trowel (Coverage: Approximately 150 ft<sup>2</sup> per gallon)

#### 3.2.2 Johnsonite #975 Two-Part Urethane Adhesive

1/16" square notched trowel (Coverage: Approximately 150 ft<sup>2</sup> per gallon)

#### 3.2.3 Installation Manual: Refer to Johnsonite Rubber Tile Installation Instructions for complete installation details.

## 4. AVAILABILITY AND COST

4.1 Available through authorized Johnsonite distributors nationwide.

## 5. WARRANTY

5.1 Limited 10 year warranty for .125" (3.17 mm) Defiant rubber tiles. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

## 6. MAINTENANCE

6.1 72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Johnsonite Defiant Rubber Tile Maintenance Instructions for complete maintenance details.

## 7. TECHNICAL SERVICES

7.1 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.

7.2 For current Installation and Maintenance Instructions, Product Specifications, and other technical data, visit us on the web at [www.johnsonite.com](http://www.johnsonite.com) or contact Johnsonite at 1-800-899-8916.