Product Specification

Section 096516

Marbled Safe-T

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. Proprietary Product: Heterogeneous slip resistant sheet floor coverings with aluminum granules, designed for safety and durability in commercial environments.

1.2. Recommended areas for use:
- Education – Cafeteria, dining areas, corridors, lavatories, locker rooms (no spikes), ramps, showers, foyers, vestibules, and entryways
- Offices –corridors, cafeterias, lavatories, foyers, vestibules, and entryways
- Retail – Entryways and produce areas
- Healthcare – Corridors, hydro physical therapy, patient corridors, ramps, and scrub rooms.
- Hospitality – Around whirlpools, spas, and indoor pools, corridors, elevators, vending areas, foyers, vestibules, and entryways
- Assisted Living – Corridors and lavatories

1.3. Manufacturer:

Johnsonite, Inc.,	Phone:	(800) 899-8916
16910 Munn Road		(440) 543-8916
Chagrin Falls, Ohio 44023	Tech:	Ext 9297
Web: www.johnsonite.com	Samples:	Ext 9299
E-mail: info@johnsonite.com	Fax:	(440) 632-8920

1.4. Proprietary Product Description:

1.4.1. Construction: Johnsonite's Marbled Safe-T features aluminum granules slip retardant particulate suspended evenly throughout the product thickness to offer superior slip resistance. Incorporated biostat to resist fungi and bacterial growth.

1.4.2. Styles:
- Overall thickness is 0.080" (2.0 mm)
- Packaging: Available in 6' 6" (2 m) wide and approximately 67' linear feet (20.4 m) per roll

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- Sheet material meets ASTM F 1303, Type I, Grade 1, Class B performance sheet vinyl floorcovering with backing
- Heat Stability by Color Change (ASTM F 1514): $\Delta E \leq 8$
- Light Stability by Color Change (ASTM F 1515): $\Delta E \leq 8$
- Electrostatic Propensity (EN 1815): < 2 kV
- Anti Fungi and bacteria resistant
- Static coefficient of friction (ASTM D 2047): > 0.6
- Static Load Limit (ASTM F 970): Passes 175 psi requirement
- Fire Performance:
  - Flooring Radiant Panel: ASTM E 648 – Class 1

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%.

Concrete shall be prepared utilizing ASTM F 710, Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring. Floors shall be smooth, flat, permanently dry, clean, and free of all foreign material such as dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Floor covering shall not be installed over expansion joints.

All concrete subfloors must be tested for moisture, pH (alkalinity), and proper adhesive bond: Moisture tests shall be conducted in accordance with ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using *in situ* Probes". Three tests should be conducted for areas up to 1,000 sq. ft. and one additional test should be conducted for each additional 1,000 sq. ft. of flooring or fraction thereof.

RH test results must not exceed 80%.

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.

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°F (18°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°F (30°C).

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.

- Material installed under heavy dynamic or static loads will require the use of a specialized firm setting adhesive,
  – Johnsonite 975 Two-Part Polyurethane is recommended for these areas.
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3.1. Adhesives:

- Johnsonite #925 Adhesive for Resilient Flooring:
  Approximate Coverage:
  Porous Substrate: 150-175 sq. ft.
  Non-porous Substrate: 250-300 sq. ft.
- Johnsonite #975 Two-Part Polyurethane Adhesive:
  Approximate Coverage:
  Porous Substrate: 225-250 sq. ft.
  Non-porous Substrate: 225-250 sq. ft.
- 130 SpraySmart Adhesive:
  Coverage - 150 to 185 sq. ft. per 22 oz. container

3.2. Installation Manual: Refer to Johnsonite Installation Instruction for complete installation details.

4. AVAILABILITY AND COST

Available through authorized Johnsonite distributors nationwide.

5. WARRANTY

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

6. MAINTENANCE

- Light foot traffic may be allowed 24 hours after installation.
- No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.
- Allow at least 72 hours for adhesive to achieve bond before commencing recommended maintenance routine.
- To ensure proper electrical performance, floors must be kept thoroughly clean and well maintained. No floor finishes ate to be utilized during maintenance procedures.
- Do not use acetone or similar materials to clean floors. Furniture rests, cart wheels and tires should be made of soft, non-staining rubber and should be large enough to fully dissipate the load. Chair pads are recommended for desk areas. Special hard set adhesive is required in areas where heavy static or dynamic loads will occur.

6.1. Refer to Johnsonite's Maintenance Instructions for complete maintenance 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 (800) 899-8916.