



TACTILE WARNING STRIPS

Installation Instructions

INTRODUCTION

Johnsonite Tactile Warning Strips are manufactured from a homogeneous composition of polyvinyl chloride (PVC), high quality additives, and colorants to meet the performance and design requirements of the American National Standards Institute (ANSI) A117.1-1986, Accessible Warnings on Walking Surfaces.

ANSI 117.1-1986 states that when tactile warning strip material is utilized that it extend across the full width of the hazardous area and for a continuous depth of 3 feet (.91 m) prior to the hazard.

This unique design provides an underfoot or tactile warning to identify hazardous areas, such as, at the top of open stairwells, platforms, and other similar hazardous areas.

The product is also available with co-extruded contrasting color striping alternating across the profile surface to enhance visual awareness.

This highly resilient material is ideal for high-trafficked workplace interiors and public places such as airports, schools, and shopping malls, as well as, other health care, hospitality, retail and office environment applications.

The highest quality of materials and workmanship are employed in the manufacture of Johnsonite Tactile Warning Strips 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 prior to 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 Tactile Warning Strips are for interior installations only and not recommended for commercial kitchen or computer room applications.

HANDLING AND STORAGE

1. Johnsonite Tactile Warning Strips 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 70°F (18° and 21°C) and
2. **relative humidity at 50%**
3. 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.
4. **Johnsonite Tactile Warning Strips are not recommended for exterior use. Exposure to excessive UV rays can result in fading and/or color variation.**

GENERAL SUBFLOOR 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 Tactile Warning Strips 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 product. 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 installations over existing resilient floors. All resilient flooring and adhesives must be removed prior to installation.

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.

TACTILE WARNING STRIP INSTALLATION

1. Johnsonite Tactile Warning Strip material must be uncoiled and allowed to condition for 24 hours prior to installation.
2. The product should be trimmed to fit, dry laid, and inspected prior to adhesive application.
3. If the installation requires compliance to ANSI A117.1-1986, position the first section of tactile warning strip material with the striping running parallel to the leading edge and extending across the entire width of the hazardous location.
4. Position two additional strips of material adjacent to the first piece to create a total depth of 3 feet (.91 m) of tactile warning striping material.
5. After visual inspection of the dry laid installation, lay the three sections of pre-trimmed tactile warning striping material aside and apply adhesive to the substrate.
6. Johnsonite's #996 Two-Part Epoxy, #975 Two-Part Urethane, or #965 Acrylic Flooring and Tread Adhesives are approved for installation of the tactile warning strip material. Follow the directions on the respective adhesive label for mixing, application, and drying times.
7. Remove wet adhesive at seams or off tile surface with a cloth dampened with rubbing alcohol or water.

Caution: Epoxy and Urethane adhesives must be removed when wet. The removal of dried adhesive can result in product damage.

8. After the tactile warning strips have been installed, roll the floor, in both directions, with a 100 lb. 3-section roller. Roll a second time one hour later. Inspect the floor 2-1/2 hours after installation and roll a third time, if necessary. Use a hand roller in areas which cannot be reached with a large roller. Inspect floor surface, especially seams, and remove any adhesive on the surface.
9. 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.

TACTILE WARNING STRIP MAINTENANCE

1. Do not perform any maintenance on the product for 72 hours after installation is completed.
2. Thoroughly sweep or vacuum the entire surface area to remove all loose dirt and grit.
3. Prepare a cleaning solution by mixing 1 to 4 oz. of a neutral detergent (pH of 7-8) per gallon of warm water. The dilution selected depends on light to heavy soil conditions.
4. Apply the cleaning solution with a clean nylon or rayon mop, and let stand for 5-15 minutes. **Important:** Do not let the solution dry.
5. Agitate solution with mop, then wet vacuum or mop up cleaning solution.
6. Rinse with clean cold water and then remove all water by vacuum or mop.
7. Allow the product to thoroughly dry.
8. If desired, one or two coats of an liquid, acrylic floor finish may be applied to improve gloss level and ease cleaning. Follow manufacturer's directions for application and drying times.
9. 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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