



Installation and Maintenance Instructions

Handling and Storage

1. Johnsonite chair rail 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%.
2. Care must be taken not to pull the chair rail excessively when removing it from the carton. **The chair rail will not shrink,**

but it will relax to its original length, if stretched.

3. In areas 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. The highest quality of materials and workmanship is employed in the manufacture of Johnsonite 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 ensure the materials are checked for damage, defects, and satisfactory color match. An authorized Johnsonite distributor or Johnsonite representative must be notified of any defects before installation proceeds.

5. Johnsonite cannot accept responsibility for any 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.

General Surface Preparation

1. **All walls** must be clean, smooth, flat and dry. The surface must be free of all dust, loose particles, solvents, paint, grease, oil, wax, alkali, sealing/curing compounds, old adhesive, and any other foreign material, which could affect installation. Remove existing adhesive mechanically – do not use chemical adhesive removers or solvents. Fill all depressions, cracks, and other surface irregularities with a good quality patching compound.

NOTE: Contamination on the substrate can cause damage to the resilient chair rail material. Permanent and non-permanent markers, pens, crayons, paint, etc., must not be used to write on the back of the chair

rail material or used to mark the substrate as they could bleed through and stain the chair rail material. If these contaminants are present on the substrate they must be mechanically removed prior to the installation of the flooring material.

Caution: Do not use liquid solvents or adhesive removers.

2. Do not install Johnsonite Millwork Resilient Chair Rail over paint or vinyl wallcoverings. Remove the paint or wallcovering from the desired area prior to installing the moulding.
3. When installing Johnsonite Millwork Resilient Chair Rail over non-porous or porous surfaces, Johnsonite 946 Premium Contact Adhesive must be used.

4. Never install Johnsonite Millwork Resilient Chair Rail on surfaces that will be exposed to drastic temperature changes or moisture.

5. **Terrazzo and Ceramic wall** surfaces 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.

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

Millwork Chair Rail Installation

1. Recommended Adhesives:

- a. Porous and Non-Porous Surfaces:
Johnsonite 946 Premium Contact Adhesive
Apply adhesive with a Brush or Short Nap Roller

Caution: Allow the 946 adhesive to dry to the touch with no transfer to the finger. Once the adhesive reaches the "dry-to-touch" state, the chair rail must be installed within 45 minutes and immediately rolled.

2. Equipment Requirements:

- ◆ Standard or Sliding Compound Miter Saw equipped with a Carbide tip blade with 80 teeth or greater
- ◆ Utility knife
- ◆ Straight edge
- ◆ Tape measure
- ◆ Carpenter's square
- ◆ Slide Bevel & Protractor
- ◆ Hand roller
- ◆ Dividers (Crain 380 or equivalent)

3. Installation Procedure

a. Pencil mark the wall surface in several areas to establish the required installed position of the chair rail profile on the wall. The Chair Rail Profile is approximately 3" wide, therefore; place a pencil mark on the wall surface to indicate the position of the bottom of the profile, as well as, the top of the profile. Use a straight edge to connect the pencil marks and draw continuous pencil lines on the wall surface parallel to the floor.

b. Cut the Millwork Resilient Chair Rail to the required lengths using a Standard or Sliding Compound Miter Saw equipped with a Carbide tip blade with 80 teeth or greater.

Note: When butting chair rail seams together, it may be necessary to square cut the factory edge if butt ends do not align.

c. Apply Johnsonite 946 Premium Contact Adhesive to both the wall surface and the back of the chair rail. Allow adhesive to thoroughly dry to the touch. Carefully position the chair rail on the wall surface.

Note: Once contact is made to the wall surface, the chair rail cannot be moved.

d. Position the chair rail on wall surface and roll with hand roller. **Always roll back to starting point to prevent stretching the chair rail.**

4. Clean-up

a. Use a clean white cloth dampened with water to remove wet adhesive from chair rail, substrate, floor covering and tools.

b. Dried adhesive may require the use of denatured alcohol applied to a clean white cloth. (Follow manufacturer's precautions when using denatured alcohol.)

Millwork Chair Rail Corner Installation

Johnsonite Millwork Resilient Chair Rail Inside and Outside Corners are fabricated utilizing the same equipment and techniques required for traditional wood chair rail molding profiles. To aid in productivity start the job by determining the degrees of each outside and inside corner, write them on a piece of paper, and label each corner.

Outside Corners:

- a. Position a sufficient length of chair rail on the wall so that it tightly abuts the previously installed section and extends past the corner.
- b. Using a pencil, mark the wall corner bend location along the top edge of the chair rail.
- c. Set the saw blade angle to the required miter angle for the corner using a protractor.
- d. Place the chair rail section against the saw fence or miter guide so the chair rail is laying flat on the machine table with the contoured (show) surface facing up and perpendicular to the saw blade.
- e. Cut the chair rail to the proper miter

angle. Repeat this procedure for the other side of the corner.

- f. Place the two mitered sections of chair rail on the corner and check for proper fit. Trim, if necessary, to obtain a tight fit at the corner.
 - g. To obtain a tighter and more secure fit between the two mitered sections at the corner, glue the two mitered areas together with Johnsonite 946 Premium Contact Adhesive.
 - h. Apply the adhesive to the ribbed back of one section of the chair rail corner, position the section in place, and roll with a hand roller to ensure proper adhesion to the wall surface.
 - i. Apply adhesive to the ribbed back of the opposite side of the corner. Attention should be given to a tight and even fit to the corner.
2. **Inside Corners:**
 - a. Set the saw blade angle to the required miter angle for the corner using a protractor.
 - b. Place the chair rail section against the

saw fence or miter guide so the chair rail is laying flat on the machine table with the contoured (show) surface facing up and perpendicular to the saw blade.

- c. Cut the chair rail to the proper miter angle. Repeat the above procedure for the other side of the corner.
- d. Place the two mitered sections of chair rail on the inside corner and check for proper fit. Trim, if necessary, to obtain a tight fit at the corner.
- e. To obtain a tighter and more secure fit between the two mitered sections at the corner, glue the two mitered areas together with Johnsonite 946 Premium Contact Adhesive.
- f. Apply the adhesive to the ribbed back of one section of the chair rail corner, position the section in place, and roll with a hand roller to ensure proper adhesion to the wall surface.
- g. Apply adhesive to the ribbed back of the opposite side of the corner. Attention should be given to a tight and even fit to the corner.

Adhesive Clean Up

Excess adhesive should be removed during the installation process.

946 Premium Contact Adhesive

- ◆ Use a clean white cloth dampened with water to remove wet adhesive from chair rail, substrate, floor covering and tools.
- ◆ Dried adhesive may require the use of denatured alcohol applied to a clean white cloth. (Follow manufacturer's precautions when using denatured alcohol.)

Maintenance

1. Wait 72 hours after installation before performing initial cleaning.
2. A regular maintenance program must be started after the initial cleaning.
3. Johnsonite Millwork Resilient Chair Rail is
4. maintained with regular wiping using a wet, clean, soft, white cloth.
5. A mild detergent may be added to the water.
5. Coarse scrubbing media or harsh cleaning

chemicals may damage the surface of the chair rail.

For further questions please contact Johnsonite Technical Services Department at 1-800-899-8916.

 **Johnsonite**
A Tarkett Company

THE ULTIMATE
FLOORING EXPERIENCE

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