

## Base Preparation

### I. General Information

Impact Barrier QT can be installed under most types of grouted, glued, and floating floors including ceramic tile, stone, marble, brick, pavers, hardwood, engineered wood, laminate, parquet, sheet vinyl, LVT, and carpet.

### II. Job Site Condition

During installation, areas should be weather tight and a temperature of 65F (10C) should be maintained for 48 hours before, during, and after installation.

### III. Subfloor Requirements and Preparation

1. All subfloors/substrates must be inspected prior to installation.
2. Install over concrete, approved self-leveling materials, and wood.
3. Wood subfloors should be double construction with a minimum thickness of one inch. The floor must be ridged and free from movement with a minimum of 18 inches of well-ventilated air space below.
4. Wood subfloors (when installed with use of grouted floor coverings like tile) must be prepared according to ANSI L/360 standards.  
**NOTE:** Particleboard (“chipboard”), Masonite, and lauan are not suitable underlayments.
5. Concrete floors must be fully cured and permanently dry. Subfloor shall be dry, clean smooth, level, and structurally sound.
6. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. **DO NOT** use solvents.
7. Grind all high spots until level and fill low spots with an approved patching/leveling compound.
8. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved patching/leveling compound. Allow patching material to dry thoroughly.
9. Any concrete subfloor can be a source of moisture-related flooring failures. It is the installer’s responsibility to test the concrete for moisture.

### IV. Material Handling

1. Impact Barrier QT and any adhesive used must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
2. Roll material is slightly stretched when it is rolled at the factory. At the job site, the installer should allow all cuts to relax before gluing down. Shaking the material once it is unrolled can help it relax more quickly.

## Installation

### I. Installing Impact Barrier QT

1. Assume the walls you are butting up against are not square. Using a chalk line, create a starting point for an edge of the material to follow.  
**NOTE:** Leave a 1/4" gap around the perimeter of the room. To achieve optimum results, this will be filled with OSI Acoustical Sound Sealant.
2. Place the Impact Barrier QT material so that it is perpendicular to the subsequent installation direction of the topping material.
3. Trim the ends of each section as necessary in order to fit the surface area to be covered.
4. Align the lengthwise edge of the material exactly with that of the neighboring section. Edges must contact but not overlap.

### II. Gluing Impact Barrier QT

**NOTE:** When using grouted or fully adhered flooring materials, the Impact Barrier QT shall be fully adhered to the substrate with a suitable adhesive. Gluing is not required for floating floors.

1. Fold the first drop lengthwise (half the width of the roll). Spread adhesive using proper notch trowel.
2. Carefully lay the material into the wet adhesive. **DO NOT** let the material fall because this will trap air beneath the material.
3. Fold over second half of first sheet and first half of second sheet.
4. Spread the adhesive. At seam area, spread adhesive at 90 degrees to seam to prevent excess adhesive oozing up to the surface of the material.
5. Continue the process for each consecutive drop.
6. Never leave adhesive ridges or puddles, as they may telegraph through the material.
7. Use a 30-50lb. roller to roll over the floor within 45 minutes to ensure proper transfer of adhesive. Overlap each pass of the roller by 50% of the previous pass to ensure that the floor is proper rolled.

### III. Alternative Installation Method - Floating Floors

Using Tape (For Floating Floor Covering Installations)

1. Dry lay the rolls onto the subfloor following the directions in Section I.
2. Use duct tape or a high-quality carpet tape to secure the butt joints and seams.
3. A 3" wide strip can be used to prevent Impact Barrier QT from moving on the substrate.

### IV. Sealing Impact Barrier QT

1. Wait at least one hour for the adhesive to begin to set.

2. Using OSI Acoustical Sound Sealant (or other acoustical sealant), apply to the 1/4" gap left around the perimeter of the Impact Barrier QT.
3. OSI Acoustical Sound Sealant will take 2-7 days to fully cure, but flooring may be applied after one hour.

## **Floor Finish**

- I. General
  1. Follow the flooring manufacturer's directions for installing the flooring. Use their recommended adhesives, procedures, and equipment.
  2. DO NOT mechanically fasten any material through Impact Barrier QT. Any mechanical connection, such as nails, screws, staples, etc. will transmit noise through to the building structure, compromising the performance of Impact Barrier QT.
- II. Installation
  1. Install self-locking floors, such as wood laminates, over Impact Barrier QT following the manufacturer's recommendations.
  2. Glue standard wood flooring directly to Impact Barrier QT using the flooring manufacturer's recommended adhesive.
  3. If a flooring manufacture recommends the installation of a layer of plywood or cement board between Impact Barrier QT and the finished flooring, glue the recommended board using a suitable adhesive.
  4. Install grouted flooring materials in a thin- or thick-set mortar bed applied directly on the Impact Barrier QT.

## **Baseboard**

- I. Installation of Baseboard
  1. Fix baseboard to the wall above the flooring. The baseboard must not touch the floor.
  2. Seal the entire perimeter with a permanently flexible acoustical caulk. Use OSI Acoustical Sound Sealant for best results.

## **Recommended Materials**

**NOTE:** The following materials are listed because of their extensive testing and field experience with Impact Barrier QT. If you would like us to evaluate any materials as alternatives, please call Soundproof Cow at 1-866-949-9269.

- I. Acoustical Caulk
  1. OSI® Pro-Series® SC-175™ Acoustical Sound Sealant (866) 949-9269
- II. Urethane Adhesives
  1. Bostik's Best® by Bostik® (800) 592-8858
  2. DriTac 7500/7600 by DriTac (800) 394-9310
  3. Henry #971 (800) 232-4832
- III. Thin-Set Materials

1. ARDEX FB9L (724) 203-5000
  2. ARDEX x-9 (724) 203-5000
  3. ARDEX X7 Plus (724) 203-5000
  4. ARDEX S16 (724) 203-5000
  5. Bostik® Hydroment® Single-Flex Mortar (800) 592-8858
  6. Laticrete® 253 Gold
  7. Laticrete® 254 Platinum
  8. Laticrete® Sure Set
- IV. Grout Materials
1. ARDEX Flex Grout (724) 203-5000
  2. Bostik® Hydroment® Joint Filler (800) 592-8858
  3. Laticrete® PermaColor™ Grout
  4. Laticrete® SpectraLOCK® Grout

### **Warranty Information**

The recommendations for applications and installation are based on our extensive experience and on current technological practice. Our liability and responsibility in the event of damages is limited to the extent defined in our General Terms and Conditions of Business and is not in any way increased by the above recommendations or by advice given by our sales representatives.

We offer a limited lifetime warranty on the Impact Barrier WT product against defects in material and workmanship and Impact Barrier QT shall meet all published specifications and shall perform effectively. During the warranty period, Impact Barrier QT shall not harden, become brittle, chip, crack, tear, or exhibit any signs of excessive deterioration except for normal wear and tear. All other warranties, including implied warranties for a particular purpose, are expressly excluded. The sole remedy against the seller will be the replacement or repair of the defective goods, or at the seller's option, credit may be issued not exceeding the selling price of the defective good.