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# BASE PREPARATION

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## I. GENERAL INFORMATION

The QuietSound II™ rolled underlayment has been rigorously tested to be as good as any sound isolation products

Currently produced, laboratory results available on request.. Made from 100% resilient recycled rubber, from remanufactured car and truck tires, QuietSound II™ qualifies many projects for up to 5 LEED points and makes an important statement that a builder, developer, or architect cares about our environment. Used in schools, hospitals, hotels and condominiums QuietSound II™ has very low VOC's and can be installed under most types of grouted, glued and floating floors\*\*\* ( no adhesive required for floating floors) including ceramic tile, stone, and engineered woods.

## II. JOB SITE CONDITIONS

Like most flooring products, do not consider installation until there are suitable temperature and humidity controls operable and working, and a suitably "clean" means of ingress and egress. Complete building and job requirements are available online at [www.usrubber.com](http://www.usrubber.com).

## III. SUBFLOOR REQUIREMENTS & PREPARATION

**NOTE:** Please follow the subfloor requirements and preparation recommendations determined by the flooring manufacturer. Use the following subfloor requirements and preparation guidelines only when no such recommendations exist for the floor finishing product.

1. All subfloors/substrates must be inspected prior to installation.
2. Install QuietSound II™ over concrete, approved self-leveling materials and wood.

3. Wood subfloors (when installed with use of grouted floor coverings like tile) must be prepared according to ANSI L/360 standards, as required by the floor covering manufacturer.

**NOTE:** Particleboard, often called "chipboard," masonite and lauan are not suitable underlayments.

4. Concrete floors must be fully cured and permanently dry. Subfloor shall be dry, clean, smooth, level and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue and other extraneous materials, according to ASTM F710.
5. Subfloor should be smooth to prevent irregularities, roughness or other defects from telegraphing through the material. The surface should be flat to the equivalent of 3/16" (3.9mm) in 10', as described in ACI 117R, or as recommended by the flooring manufacturer.
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 or other cement-like material for moisture.

**NOTE:** The calcium chloride test (ASTM F1869) is not recommended for use with gypsum products.

## IV. HAZARDS

### SILICA WARNING

Concrete, floor patching compounds, toppings and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Respirable silica is classified by OSHA as an IA carcinogen and is known to cause silicosis and other respiratory diseases. Avoid actions that cause dust to become airborne. Use local or general ventilation, or protective equipment to reduce exposure below applicable exposure limits.

### LEAD WARNING

Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state and local laws and the publication, *Lead Based Paint. Guidelines for Hazard Identification and Abatement in Public and Indian Housing*, available from the United States Department of Housing and Urban Development.

### ASBESTOS WARNING

Resilient flooring, backing, Dining felt, paint or asphalted "cutback" adhesives could contain asbestos fibers. Avoid actions

that cause dust to become airborne. DO NOT sand, dry sweep, dry scrape, drill, saw, bead blast, mechanically chip or pulverize. Regulations may require that the material be tested to determine asbestos content. Consult the documents titled, *Recommended Work Practices for Removal of Existing Resilient Floor Coverings*, available from the Resilient Floor Covering Institute.

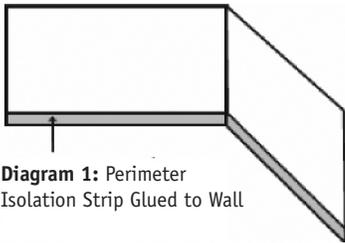
## V. MATERIAL STORAGE AND HANDLING

1. Deliver the material to the job site in its original, unopened packaging with all labels intact and stored appropriately to prevent damage.
2. Inspect all material for visual defects before beginning the installation. U.S. Rubber will not honor any labor claim on material installed with visually apparent defects.
4. The material and any adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
5. Roll material is stretched slightly 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 to relax more quickly.

# INSTALLATION

## I. PERIMETER ISOLATION STRIPS

**NOTE:** It is essential to install isolation strips, if any, before placing and trimming



**Diagram 1:** Perimeter Isolation Strip Glued to Wall

1. Open windows daily a minimum of 2" to allow for the evaporation of moisture.

**NOTE:** A building without all of these conditions present will significantly increase the drying time of the gypsum product.

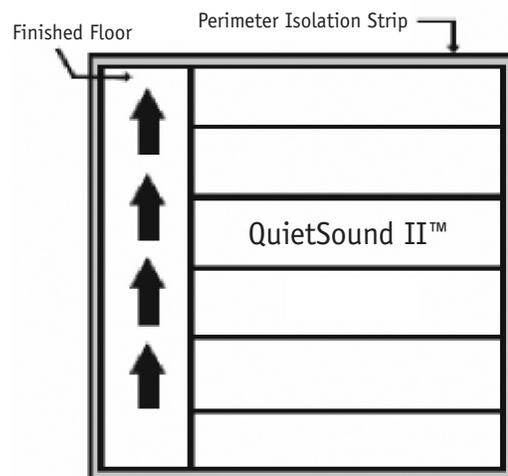
2. Before applying the sealer or installing the finished floor goods, be sure that the gypsum underlayment is sufficiently dry by testing it using the plastic sheet method per ASTM D4263 or a method recommended by the gypsum manufacturer.
3. Install the finished floor in accordance with the flooring manufacturer's directions. After installing the finished floor, trim the excess Perimeter Isolation Strip around the entire perimeter of the finished floor.

## II. INSTALLATION METHODS

**NOTE:** QuietSound II™ sound isolation underlayment is a flat, resilient underlayment that is used directly under a variety of floor finishes, including ceramic tile, vinyl, wood, laminate and stone, yielding exceptional results over both concrete and wood joist constructions. QuietSound II™ is available in 48" wide rolls, and in 3mm, 5mm, 6mm, 9mm, and 12mm thicknesses, other custom thicknesses available..

## TYPICAL INSTALLATION

1. Attach wall isolation strips, if any (see Diagram 1).
2. 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.
3. If you have not already done so, remove the shrink-wrap from the roll of QuietSound II™ and unroll it onto the floor. Shaking the material once it is unrolled can help it to relax.
4. Place the QuietSound II™ material so that it is perpendicular to the subsequent installation direction of the topping material (see Diagram 2 below ).



**Diagram 2:** Installation Direction

5. Trim the ends of each section as necessary in order to fit the surface area to be covered. You may trim section ends to exact dimensions required (e.g. joints with walls, etc.).
6. Align the lengthwise edge of the material exactly with that of the neighboring section. Edges must contact but not overlap.

**NOTE:** When using grouted or fully adhered flooring materials, the QuietSound II™ shall be fully adhered to the substrate with a suitable adhesive, preferably Surebond II, or Acryli-Bond II. No substitutions are permitted.

7. Fold the first drop lengthwise (half the width of the roll). Spread adhesive using proper notch trowel.

**NOTE:** Temperature and humidity affect the open time of adhesive. The installer should monitor on-site conditions and adjust open time accordingly. Carefully lay the material into the wet adhesive, dropping it may trap air which may affect adhesion. Carefully lay the material into the wet adhesive.

8. Fold over second half of first sheet and first half of second sheet.

9. Spread the adhesive. At seam area, spread adhesive at a 90 degree angle to the seam to prevent excessive adhesive oozing up to the surface of the material.

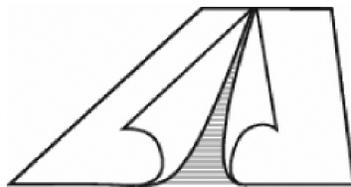


Diagram 3: Seam Alignment

10. Continue the process for each consecutive drop. Always work at a pace so that you are always folding material back into wet adhesive.
11. Never leave adhesive ridges or puddles, as they may telegraph through the material.
12. Use a 30 to 50 lb. 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 properly rolled.

13. Slice air pockets and wrinkles and smooth with a roller or the flat side of a trowel. Align subsequent sheets and butt join the seams tightly but do not overlap them.

## USING TAPE (FOR FLOATING FLOOR COVERING INSTALLATIONS)

1. Dry lay the rolls onto the subfloor following the directions on above.
2. Use duct tape or a high-quality carpet tape to secure the *butt* joints and seams.
3. A high quality 3" wide duct tape can be used to prevent the QuietSound II™ from moving on the substrate.

**NOTE:** Gluing down of the QuietSound II™ is not required for floating Floors.

## III. FLOOR FINISH

### GENERAL

**DO NOT** mechanically fasten any material through QuietSound II™. Any mechanical connection, such as nails, screws, staples, etc., will transmit noise through to the building structure, compromising the performance of Quiet Sound.

### INSTALLATION

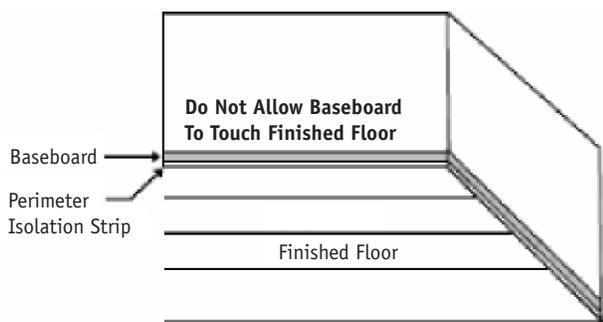
1. Install self-locking floors, such as wood laminates, over QuietSound II™ following the manufacturer's recommendations.
2. Glue standard wood flooring directly to QuietSound II™, (if not floating), using the flooring manufacturer's recommended adhesive.
3. If a flooring manufacturer recommends the installation of a layer of plywood or cement board between the QuietSound II™ underlayment and the finished flooring, glue the recommended board using a suitable adhesive.

4. Heat welding of seams may allow the migration of some chemicals into the flooring. As a preventative measure, install a barrier between the QuietSound II™ and the flooring. A layer of craft paper will work well for this application.
5. Install grouted flooring materials in a thin/thick mortar applied directly on the QuietSound II™.
6. Trim any excess material flush with the floor.

#### IV. BASEBOARD INSTALLATION

(If applicable)

1. After perimeter installation strip has been trimmed to finished floor height install the baseboard.
2. Fix the baseboard to the wall above the QT. The baseboard must not touch the finished floor (see Diagram 4).
3. Seal the entire perimeter with a permanently flexible acoustical caulk.



**Diagram 4:** Baseboard Installation

#### V. RECOMMENDED MATERIALS

**NOTE:** All materials shall be delivered to the job site in the original containers with the manufacturer's identification on each package. Unauthorized modification to any product is not permitted. The following materials are listed only as a convenience to the buyer.

##### URETHANE/ACRYLIC ADHESIVES

1. Surebond II (Urethane Based).
2. Acryli-Bond II-(Acrylic Based)

**\*\*\*NOTE:** See page 6, no adhesive required for floating floors, just tape seams

# WARRANTY

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## 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 are limited to the extent defined herein and are not in any way increased by the above recommendations or by advice given by our sales representatives or applications staff.

U.S. Rubber Recycling Inc. is a corporation duly organized and validly existing under the laws of California. We offer a limited lifetime warranty on the QuietSound II™ product against defects in material and workmanship and that it shall meet all published specifications and shall perform effectively. QuietSound II™ 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 seller's option, credit may be issued not exceeding the selling price of the defective good.



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