KINETICS  
INSTALLATION GUIDELINES | /ISO/ Layment QT-F (FLAT)

/ISO/ Layment QT-F sound control underlayment is a flat, resilient underlayment used directly under a variety of floor finishes including ceramic tile, sheet vinyl and LVT, wood, laminate, and stone for impact noise control. Do not use under VCT, vinyl composite tile, unless approved by the manufacturer of the VCT product. /ISO/ Layment QT-F installs easily over concrete and wood framed construction. The improved noise control can be substantial, especially for noise resulting from footfall. /ISO/ Layment QT-F is available in 48” wide rolls, and in four (4) standard thicknesses – 2mm to 15mm. Custom thicknesses are available upon request.

I GENERAL INFORMATION

The /ISO/ Layment QT-F line of products for impact sound insulation is engineered to provide better performance than any other continuous sound control product of similar thickness; it has been rigorously tested to achieve proven results. Made from at least 92% resilient recycled rubber and backed by over 400 independent laboratory and field tests, /ISO/ Layment QT-F has been selected and used in some of the best hotels and condominiums in the world. It 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 and LVT, and carpet. All floor covering assemblies shall have prior approval before installation.

II JOB SITE CONDITIONS

Areas to receive /ISO/ Layment QT-F should be weather tight and maintained at a minimum constant room temperature of 65°F (10°C) for 48 hours before, during, and after installation.

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 /ISO/ Layment QT-F over concrete, approved self-leveling materials, and wood.

3. Wood subfloors (especially 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. NOTE: For ceramic tile and stone, follow TCNA Guidelines.
**Installation Suggestion:** To ensure adequate stiffness and reduce squeaking, wood subfloors should be double construction with a minimum thickness of one-inch (1”).

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” (4-mm) in 10-feet (3.0-meters), 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.

10. Maximum moisture vapor emission of the concrete must not exceed 5.5 lbs/1,000 sq ft in a 24 hour period, as measured by the calcium chloride test method in accordance with the ASTM F1869 standard. If vapor emissions exceed acceptable limits, the installation should not proceed until the problem has been corrected.

11. Moisture can also be measured using the RH, Relative Humidity, test method per the ASTM F2170 standard. Moisture content should not exceed 85% RH. If levels are higher using either test method, a Kinetics recommended vapor retardant must be used prior to installation.

**IV HAZARDS**

A. **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 and 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.
B. 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 (HUD).

C. ASBESTOS WARNING

Resilient flooring, backing, lining felt, paint, or asphalitic “cutback” adhesives could contain asbestos fibers. Avoid actions that cause dust to become airborne. DO NOT sand, dry sweep, dry scrape, drill, saw, beadblast, 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 jobsite 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. Kinetics will honor no labor claim on material installed with any visually apparent defects.

3. Verify the material delivered is the correct type, thickness, and amount. Report any discrepancies immediately.

4. The material and any adhesive must be acclimated at room temperature for a minimum of twenty-four (24) hours before starting the installation.

5. Roll material is stretched slightly when it is rolled at the factory. At the jobsite, 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.

VI INSTALLING ISOLayment QT-F

A. GENERAL

**NOTE:** Install ISOLayment QT Perimeter Isolation Strip FIRST! Do not place and trim ISOLayment QT-F before installing Perimeter Isolation Strip.

1. Attach ISOLayment QT Perimeter Isolation Strip to the wall using a spot adhesive. This is required to maintain resilient separation between the sound isolated floor and the walls or other structure attached directly to the subfloor.
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 ISO Layment QT-F and unroll it onto the floor. Shaking the material once it is unrolled can help it to relax.

4. Place the ISO Layment QT-F material so that it is perpendicular to the subsequent installation direction of the topping material.

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.

B. GLUING ISO Layment QT-F

**NOTE:** When using grouted or fully adhered flooring materials, ISO Layment QT-F shall be fully adhered to the substrate with a suitable adhesive. See [RECOMMENDED MATERIALS](#) section. No substitutions are permitted.

1. Fold the first drop lengthwise (half the width of the roll). Spread QTgrip urethane adhesive using a 1/16” square notch trowel. **NOTE:** Temperature and humidity affect the open time of adhesive. The installer should monitor on-site conditions and adjust open time accordingly.

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 excessive adhesive oozing up to the surface of the material.

5. Continue the process for each consecutive drop. Always work at a pace so that you are always folding material back into wet adhesive.

6. Never leave adhesive ridges or puddles, as they may telegraph through the material.

7. 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.
VII ALTERNATIVE INSTALLATION METHODS

A. USING TAPE (FOR FLOATING FLOOR COVERING INSTALLATIONS)

1. Dry lay the rolls onto the subfloor.

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 /ISOLayment QT-F from moving on the substrate.

**NOTE:** Gluing down /ISOLayment QT-F is not required for floating floors.

VIII FLOOR FINISH

A. GENERAL

1. Follow the flooring manufacturer’s directions for installing the flooring. Use their recommended adhesives, procedures, and equipment. **NOTE:** When installing sheet vinyl, LVT plank and tile, or linoleum tile flooring products directly on /ISOLayment QT-F, a layer of manufacturer recommended urethane based adhesive shall be back-troweled onto its surface. See the materials list below. This process seals the /ISOLayment QT-F to prevent chemical migration. It also provides a monolithic layer onto which the flooring manufacturer’s recommended adhesive can be spread. **Do not install VCT, vinyl composite tile, unless approved by the manufacturer of the VCT product.**

2. **Do not** mechanically fasten any material through /ISOLayment QT-F. Any mechanical connection, such as nails, screws, staples, etc., will transmit noise through to the building structure, compromising the performance of /ISOLayment QT-F.

B. INSTALLATION

1. Install self-locking floors, such as wood laminates, over /ISOLayment QT-F following the manufacturer’s recommendations.

2. Glue standard wood flooring directly to /ISOLayment QT-F 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 /ISOLayment QT-F 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 /ISOLayment QT-F.
5. When the flooring installation is complete, trim any excess ISOlayment QT-F material so that it is flush with the surface of the finished floor.

VI. BASEBOARD

A. INSTALLATION OF BASEBOARD

1. After perimeter installation strip has been trimmed to finished floor height install the baseboard.

2. Fix the baseboard to the wall above the ISOlayment QT Perimeter Isolation Strip. The baseboard must not touch the finished floor.

3. Seal the entire perimeter with a permanently flexible acoustical caulk.

VII. 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 because of their extensive testing and field experience with ISOlayment QT products.

A. 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

B. THIN-SET MATERIALS
   1. ARDEX FB9L (724) 203-5000
   2. ARDEX X-9
   3. ARDEX X7 Plus
   4. ARDEX S16
   5. Bostik® Hydroment® Single-Flex™ Mortar
   6. Laticrete® 253 Gold
   7. Laticrete® 254 Platinum
   8. Laticrete® Sure Set

C. GROUT MATERIALS
   1. ARDEX Flex Grout
   2. Bostik® Hydroment® Joint Filler
   3. Laticrete® PermaColor™ Grout
   4. Laticrete® SpectraLOCK® Grout