



**For the Builders
of a Better World™**

170 Sound & Crack Isolation Mat

170 Sound & Crack Isolation Mat is made from clean recycled tire rubber granules. This high-performance acoustical underlayment reduces impact noise beneath ceramic tile, stone, and other hard surface materials. Durable and moisture-resistant, it will not tear or break under load, and adds no more than 12.7 mm (½ inch) to floor height.



FEATURES/BENEFITS

- Designed to provide the highest IIC rating measured according to ASTM E2179
- Excellent soundproofing performance
- Environmentally friendly
- Strong water resistance
- Lightweight and easy to install
- Suitable for various substrates and finishes

USES

- Designed to be used under thin-bed adhesive for interior floor installations of ceramic tile, marble, stone, and brick to eliminate the transmission of impact noise from one floor to the floor below.
- Eliminates the transmission of stresses from the concrete base slab to the tile installation
- Combines low installed weight with minimal "above substrate" thickness.
- Use in apartments building, offices, hotels schools, library, etc.

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd
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Internet: se.laticrete.com

STANDARDS/CERTIFICATIONS

- GB 18587

Suitable Substrates (Interior Use Only)

- Concrete
- Cement Mortar bed
- Gypsum Board*
- Cement Backer Board*
- Exterior Grade Plywood
- Cement Terrazzo
- Ceramic Tile and Stone
- Other Wood Substrates (consult LATICRETE Technical Services)

*Consult cement backer board manufacturer for specific installation recommendations

Packaging & Coverage

1m x 20m x 5mm – 20m² per roll, 9 rolls per pallet

1m x 10m x 10mm – 10m² per roll, 9 rolls per pallet

TECHNICAL DATA

Performance Properties

Test	Test Method	Results
Total Volatile Organic Compounds (TVOC)	GB 18587	≤ 0.45 mg/m ² .h
Formaldehyde	GB 18587	Not detected
Butylbenzyl Toluene	GB 18587	Not detected
4-Phenylcyclohexene	GB 18587	Not detected

Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

INSTALLATION

Surface Preparation

Concrete shall be in place for 28 days (minimum) and shall be dry. The surface shall have a smooth finish and be free of voids, 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, protrusions and loose particles to be removed, the prepared substrates should be complied with ASTM F710. All surfaces should be between 5°C and 40°C prior to installation.

Maximum moisture vapor emission of the concrete must not exceed 5 lbs/1,000 ft² 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, a LATICRETE-recommended vapor retardant must be applied for conditions up to 10 lbs/1,000 ft² in 24 hours before proceeding with the installation.

Maximum relative humidity must not exceed 85% RH, as measured by the relative humidity test method in accordance with the ASTM F2170 standard. If relative humidity exceeds acceptable limits, a vapour retardant must be used for conditions up to 90% RH.

Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L= span length.

If the sound control system to be laid directly onto the concrete substrates, grind all high spots until they are level and fill all low spots, indentations with an approved patching/leveling compound.

All saw cuts or control joints, cracks, indentations, and other non-moving joints in the concrete slab or floor substrate must be filled with an approved patching/leveling compound.

Allow patching material to dry thoroughly. Moreover, any concrete subfloor can be a source of moisture-related flooring failures. Also, test the concrete or other cement-like material for moisture.

If you require any assistance, please consult with LATICRETE Technical Department for further information.

Do not level with gypsum or asphalt based products.

- For minimum construction requirements for interior plywood floors, please refer to LATICRETE Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors".

SUBFLOOR: Subfloor should be smooth to prevent irregularities, roughness, or other defects from affecting the material above it. The surface should be flat to the equivalent of 3/16" in 10', as described in ACI 117R, or as recommended by the floor manufacturer 15 mm thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joists spaced 400 mm o.c. maximum; fasten plywood 150 mm o.c. along sheet ends and 200 mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3 mm between sheet ends and 6 mm between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joists with construction adhesive.

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joists from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive.

Application

Perimeter Isolation Strip

It is essential that all walls and building elements are isolated from the floor. The use of acoustical ceiling panels in the space below would provide additional sound control.

It is recommended to install a perimeter isolation strip before placing and trimming 170 Sound & Crack Isolation Mat. Place the perimeter isolation strip to the perimeter wall of the entire subfloor, as well as restraining surfaces (e.g. stairs, kitchen islands, walls, etc.) and around the perimeter of any protrusions, in order to isolate or break the vibration transmission path between the floor and the wall.

Temporarily fasten perimeter isolation strip in place with masking, duct, or carpet tape. Finish off all perimeter joints with a suitable acoustical grade sealant.

MATERIAL HANDLING AND STORAGE:

- I. Deliver the material to the job site in its original unopened packaging with all labels intact and stored appropriately to prevent damage.
- II. Inspect all material for visual defects before beginning the installation. We will honor no labor claim on material installed with any visually apparent defects.
- III. Verify the material delivered is the correct type, thickness, and amount. Report any discrepancies immediately.
- IV. The material and any adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
- V. 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. Agitate the material once it is unrolled can help it to relax more quickly.

170 Sound & Crack Isolation Mat installation instructions:

Use a LATICRETE polymer modified thin-set adhesive to adhere the 170 Sound & Crack Isolation Mat to the substrate. Use a 6 mm x 6 mm notched trowel and comb mortar over substrate, apply only enough mortar as can be covered within 25 minutes.

- a) Install the perimeter isolation strip to the base of the perimeter wall of the entire subfloor, as well as the perimeter of any protrusions.
- b) Unroll and place 170 Sound & Crack Isolation Mat underlayment perpendicular to subsequent installation direction of finished floor.
- c) Trim ends of each section to fit floor surface area.
- d) Align lengthwise edges of underlayment with neighboring sheets by butting up or overlapping them.
- e) Determine whether installation will be floating floor or glue-down and follow the corresponding instructions.
- f) Use duct tape or high-quality carpet tape to secure butt joints and seams, and prevent underlayment from moving.
- g) Proceed to Finished Floor Installation.

Once installed, use a 15.9 kg–45.4 kg roller to embed the 170 Sound & Crack Isolation Mat firmly into the thin-set adhesive mortar. Allow to cure for a minimum of 24 hrs at 21°C.

Application using thin-set adhesive mortar

Once fully cured, install ceramic tile, porcelain or stone finish directly over the 170 Sound & Crack Isolation Mat using a LATICRETE polymer modified thin-set adhesive. Follow instructions on adhesive packaging.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

For on-line distributor information, visit LATICRETE at se.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

Laticrete South East Asia Pte Ltd warrants that 170 Sound & Crack Isolation Mat is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to the terms and conditions stated in LATICRETE Product Warranty.

MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

LATICRETE South East Asia Pte Ltd

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(Level 2, A3)

Singapore 729245

Telephone: (65) 6515-3028

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Email: enquiry@laticrete.com.sg

Technical and safety literature

To acquire technical and safety literature, please visit our website at se.laticrete.com

Disclaimer

LATICRETE is not responsible for product use beyond its intended application. Liability is limited to replacing defective materials. We are not responsible for any loss or damage resulting from improper use. Product specifications are subject to change without notice. For the most up-to-date information, please visit our website at se.laticrete.com.

