



## GenieMat® RST

Globally Proven  
Construction Solutions

GenieMat® RST reduced sound transmission mat is a high performance sound control underlayment that is engineered to reduce impact noise through ceramic tiles, stone and other hard surface materials. GenieMat® RST is easy to install, and will not break down under load, GenieMat® RST is a flat, resilient, reduced sound transmission mat made from 94% recycled rubber content.



### FEATURES/BENEFITS

- Eliminates transmission of substrate cracks of up to 3mm from transferring to the finished floor
- Ln, w 55 dB and Rw + Ctr 50 as per ISO 717 calculation
- Load bearing — up to Extra Heavy Commercial service rating per ASTM C627/TCA
- Meets ANSI A118.12 specifications\*
- Easy and fast to install with standard tools

\* Interior dry applications only

### 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.
- To eliminate cracks in tile work and reduce noise transmission, GenieMat RST should be applied to the entire substrate prior to the installation of ceramic tile, marble, stone, terrazzo and brick.

### MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd  
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### STANDARDS/CERTIFICATIONS

- ASTM E84
- ASTM D177
- ASTM C203
- A118.1
- ASTM C627
- ASTM D412

### Suitable Substrates (Interior Use Only)

- Concrete
- Mortar bed
- Exterior grade plywood
- Cement backer board\*
- Cement terrazzo
- Ceramic tile and stone
- Other wood substrates (consult LATICRETE Technical Services)

\*Consult cement backer board manufacturer for specific installation recommendations

### Packaging & Coverage

GenieMat RST02- 27.9m<sup>2</sup> per roll, 16 rolls per pallet

GenieMat RST05- 11.1m<sup>2</sup> per roll, 16 rolls per pallet

GenieMat RST10- 5.6m<sup>2</sup> per roll, 16 rolls per pallet

GenieMat RST12- 5.6m<sup>2</sup> per roll, 12 rolls per pallet

GenieMat RST15- 5.6m<sup>2</sup> per roll, 11 rolls per pallet

## 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 8°C and 35°C prior to installation.

Maximum moisture vapor emission of the concrete must not exceed 5 lbs/1,000 ft<sup>2</sup> 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, **Moisture Vapor Barrier (MVB)** must be used for conditions up to 10 lbs/1,000 ft<sup>2</sup> in 24 hours, or a LATICRETE recommended vapor retardant must be laid before proceeding 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 ringshank, 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 ringshank, 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 GenieMat RST. 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.

**GenieMat RST installation instructions:**

Use a LATICRETE polymer modified thin-set adhesive to adhere the GenieMat RST 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 GenieMat RST 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 GenieMat RST 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 GenieMat RST using a LATICRETE polymer modified thin-set adhesive. Follow instructions on adhesive packaging.

Specific working drawings will be provided upon request.

**DISCLAIMER NOTES:**

The test data is obtained from laboratory conditions and experimental tests, which to measure the Impact Insulation Class (IIC) of a specific floor finish build-up. The value obtained will be dependent particularly on the thickness of the concrete slab, the type of tile/stone finishes installed, the type of ceiling finish installed below the floor and any sound insulating material used. Most often this value is within the range of the laboratory testing and is verified by multiple field tests in actual situation. If it is important to know the absolute sound reduction of a specific dwelling, therefore, we suggest that a field test of a mock-up according to the specific floor finish build-up, is performed as per relevant standard test method e.g. ASTM E1007. This will provide an actual total IIC for the structure if it meets the respective requirements.

**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](http://se.laticrete.com)

**Cost**

Contact a LATICRETE Distributor in your area.

**WARRANTY**

LATICRETE International, Inc. warrants that GenieMat RST 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:

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**Technical and safety literature**

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