



DECOUPLING MAT

DS-261-0821

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

DECOUPLING MAT

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

DECOUPLING MAT is a high-performance decoupling mat for use under residential and commercial ceramic tile and stone installations, replacing traditional underlayment materials. It allows for a faster installation and prevents cracks or movement in the substrate from transferring through to the tile finish.

Uses

- Interior use only
- For use as an uncoupling/decoupling membrane under tile and stone installations to prevent stresses from transmitting up from the substrate
- For use over cement and gypsum-based screeds, concrete substrates, existing ceramic tiles, plywood, and other wood boards
- Suitable for interior non-industrial vehicular traffic applications
- For use with polymer modified tile mortar (C2)
- Good for use with heated floors
- Ideal for use over plywood and OSB

Advantages

- Absorbs movement in the substrate and prevents cracks from transferring through to the tile or stone finish
- Permeable to moisture – allows vapour to escape and thin-set to cure
- Sound impact reduction
- Creates a stronger bed of support to alleviate potential issues with point loads
- Lightweight – easy to carry and fast to install with standard tools
- Thin membrane – results in thinner overall assembly

Suitable Substrates

- Cement Mortar Beds and Screeds
- Gypsum Underlayments
- Concrete
- Ceramic Tile
- Exterior Glue Plywood
- Oriented Strand Board (OSB)

Packaging

10 m² roll: 1 m x 10 m x 0.85 mm; 50 rolls per pallet
50 m² roll: 1 m x 50 m x 0.85 mm; 20 rolls per pallet

Shelf Life

Product is guaranteed to be of first quality for five (5) years if stored in a cool, dry place.

Limitations

- For horizontal use over suitable interior substrates.
- NOT for use over expansion joints or structural movement cracks.
- DO NOT bond to particle board, hardwood surfaces, luan or sponge backed vinyl flooring.
- DECOUPLING MAT is not intended for use as a waterproofing membrane.
- Not for wear surface, must be covered with suitable finish such as tile.
- Minimum tile thickness must be greater than 7.5 mm.
- DO NOT leave DECOUPLING MAT exposed for more than one week. Cover the DECOUPLING MAT after installing it and protect it from other trades if not setting tile immediately.
- DO NOT coat or apply solvent-based products on this product.

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes.

Cautions

- During cold weather, protect finished work from traffic until fully cured.
- For green marble, resin backed or other moisture sensitive tile or stone, use LATAPOXY® 300 Adhesive.
- For white and light-coloured marbles use a white LATICRETE mortar.

4. TECHNICAL DATA



Physical Properties

Physical Property	Test Method	Result
Breaking load longitudinal:	DIN EN ISO 527-3	1115 N / 50 mm
Breaking load lateral:	DIN EN ISO 527-3	1290 N / 50 mm
Adhesive tensile strength:	DIN EN 1348	0,22 N / mm ²
Extension break longitudinal:	DIN EN ISO 527-3	8%
Extension break lateral:	DIN EN ISO 527-3	7%
Resistance to temperature:	From - 5°C to + 90°C	

Chemical Resistance

Chemical Property	Resistance*
Hydrochloric acid 3%	+
Sulphuric acid 35 %	+
Citric acid 100g/l	+
Lactic acid 5%	+
Potassium hydroxide 3% / 20%	+ / 0
Sodium hypochlorite 0,3 g/l	+
Salt water (20g/l sea water)	+

*after storage over 7 days at room temperature

+ = resistant

0 = weakened

- = non-resistant

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

Surface Preparation

All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with a LATICRETE Latex Portland cement underlayment to provide a wood float or better finish.

Installation of DECOUPLING MAT to the Substrate

Cut the DECOUPLING MAT to size with a knife or scissors.

Use a suitable LATICRETE adhesive mortar and apply to the substrate in a thin-bed method using either a 4 mm or 6 mm notched trowel, being sure to key the mortar into the substrate. Spread only enough mortar that can be covered with DECOUPLING MAT during the specified open time of the mortar.

Apply DECOUPLING MAT by unrolling the sheet on the still fresh mortar. Using a trowel or roller, apply pressure to ensure proper bedding. Be sure to verify proper coverage beneath the mat.

Cut mat to appropriate lengths when approaching walls or other objects, leave approximately 5 mm between mat and edge of wall or object for movement.

Install adjacent sections of DECOUPLING MAT in the same manner, being sure to line edges of each section without leaving any gaps, butt tight or flush against each other.

Installation of Tile or Stone onto DECOUPLING MAT

LATICRETE recommends the use of a polymer modified thin set mortar complies with or exceeds EN 12004 C2 (e.g. 254 PLATINUM) when installing porcelain tiles. The unique design features of DECOUPLING MAT will allow for drying of the mortar between the porcelain tile and mat.

Installation of the tile finish can begin immediately after embedding DECOUPLING MAT into the bonding mortar. Combing mortar over the mat using a notched trowel that is suitable for the size of tile being installed. Install tiles in accordance with industry guidelines (i.e. UNI 11493.1).

Depending upon adhesive mortar used, tile size, tile type and job site conditions, grouting may be done once mortar has cured enough to allow for light foot traffic – DECOUPLING MAT usually will allow for grouting at 16 – 24 hours.

6. AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Europe S.r.l. a socio unico:
+39 059 535540
info@laticreteeuropa.com

For on-line distributor information, visit www.laticrete.eu.

Cost

Contact LATICRETE Europe S.r.l. a socio unico to obtain complete information and cost.

7. WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Services for further information. See 10. FILING SYSTEM:

- DS 230.13EU: 1 Year Product Warranty
- DS 230.10EU: 10 Year System Warranty

8. MAINTENANCE

LATICRETE® and LATAPOXY® are products of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending of the cleaning products used.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling or emailing the Technical Service Hotline:
+39 059 535540
technicalservices@laticreteeuropa.com

Technical and Safety Literature

To obtain technical and safety literature, please visit our website at www.laticrete.eu.

Warning

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® is unable to directly control the installation methods and conditions of products and does not assume any liability arising from their implementation. Those who want to use LATICRETE® products should conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.

LATICRETE® products are covered by a warranty within the limits of what is established by our general conditions of sale and within the limits of correspondence related to technical specifications and applicable certifications, as

expressly indicated in the product data sheets, documentation, or applicable technical documentation.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.eu. The following is a list of related documents:

- DS 230.13EU: 1 Year Product Warranty
- DS 230.10EU: 10 Year System Warranty
- DS 6670: 254 PLATINUM Product Data Sheet