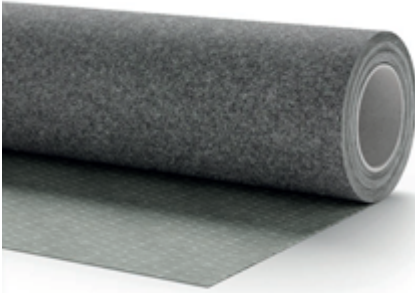




DECOUPLING MAT 2.0

DS-262-0824

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

DECOUPLING MAT 2.0

2. MANUFACTURER

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Castelnuovo Rangone MO, Italy

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3. PRODUCT DESCRIPTION

DECOUPLING MAT 2.0 is a high-performance waterproofing and decoupling mat for use under residential and commercial ceramic tile and stone installations in interior and exterior applications, replacing traditional underlayment materials. It allows for a faster install with waterproofing, and prevents cracks or movement in the substrate from transferring through to the tile finish.

Uses

- For interior and exterior use, including terraces and balconies
- As an uncoupling/decoupling membrane under tile and stone installations to prevent stresses from transmitting up from the substrate
- As waterproofing when used with suitable sealing tapes and system components
- Suitable for interior non-industrial vehicular traffic applications
- Good for use with heated floors
- Ideal for use over plywood and OSB
- For use with polymer modified tile mortar (C2) or reaction resin adhesive (R2)

Advantages

- 2-in-1 uncoupling and waterproofing (when used with suitable sealing tapes and system components)
- Absorbs movement in the substrate and prevents cracks from transferring through to the tile or stone finish
- Permeable to moisture – allows vapours 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

- Concrete
- Cement Mortar/Render
- Cement Mortar Bed
- Gypsum Underlayments
- Oriented Strand Board (OSB) (Consult panel manufacturer for specific installation recommendations and to verify acceptability for intended use)
- Exterior Glue Plywood
- Ceramic Tile

Packaging

15 m² roll: 1 m x 15 m

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 substrates.
- NOT for use over expansion joints or structural movement cracks.
- NOT a finished 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 2.0 exposed for more than one week. Cover after installing and protect work area 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

For more information consult safety data sheet.

- 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, refer to Data Sheet 633.0.
- For white and light-coloured marbles use a white LATICRETE mortar.

4. TECHNICAL DATA



Physical Properties

Colour:	Grey	
Maximum Total Width:	1000 mm (+/- 5 mm)	
Thickness:	1,8 mm (+/- 0,2 mm)	
Total Weight:	850 g / m ²	
	Test Method	Result
Bonding Strength	DIN EN 1348	≥ 0,22 N / mm ² *
Sheer Strength Test	ANSI 118-12 (5.1)	≥ 50 psi
Pressure Test - Compression:	Internal	76,4 %
Crack Bridging Test: Joint Crack:	Internal	2,7 mm
Crack Bridging Test: Shearing of Tile:	Internal	4,8 mm
Resistance to Temperature:	From -30 °C to +90 °C	

* depends on adhesive used for installation

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 salt, sea water)	>+

*Chemical resistance after 7 days at +22°C

+ = resistant

0 = weakened

- = nonresistant

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.

Note: Substrates should be prepared in accordance with requirements of adhesive selected for installation.

In exterior and wet area applications, a minimum pitch of 1.5% towards the drain outlet is required.

Installation to Substrate

Cut the DECOUPLING MAT 2.0 to size with a knife or scissors. Use a suitable LATICRETE tile adhesive (C2 or R2) 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 2.0 during the specified open time of the mortar. Apply DECOUPLING MAT 2.0 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 2.0 in the same manner, being sure to line edges of each section without leaving any gaps, butt tight or flush against each other.

Installation as Waterproofing

The above installation steps shall be followed to use DECOUPLING MAT 2.0 as a waterproofing membrane. Use suitable sealing tape, such as WPM TAPE, for all joints and against any changes in vertical plane (i.e. walls, columns, etc.). For corners or pipes, HYDRO BAN® PREFORMED CORNERS & COLLARS may be used.

All waterproofing components (i.e. tapes, corners) must be installed with a suitable waterproofing adhesive such as LATALASTIK. A flood test can be performed once the adhesive has set and hardened.

Installation of Tile or Stone

After completion of flood test, allow the mat to dry before tile installation. LATICRETE recommends the use of a polymer modified thin set mortar or reaction resin adhesive that comply with or exceed EN 12004 C2 or R2 (e.g. 254 PLATINUM) when installing porcelain tiles. The unique design features of DECOUPLING MAT 2.0 will allow for drying of the mortar between the porcelain tile and mat.

Apply 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 (ex. 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 2.0 usually will allow for grouting at 16 – 24 hours after tile installation.

6. AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE EUROPE S.r.l.:

+39 059 535540

info@laticreteurope.com

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

Cost

Contact LATICRETE EUROPE S.r.l 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:

- DS230.13EU: 1 Year Product Warranty (EN)
- DS 230.10EU: 10 Year System Warranty (EN)

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 on the cleaning products used.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling or emailing the Technical Service Hotline:

+39 059 535540

technicalservices@laticreteurope.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 023.10EU: 10 Year System Warranty