

ECHO-MAT / ECHO-PRIME

ACOUSTIC AND ANTI-FRACTURE SYSTEM



APPLICABLE STANDARDS

ASTM C482 STANDARD

Test method for bond strength of ceramic tile to Portland cement.

ASTM C627 STANDARD

Test method for evaluating ceramic floor tile installation systems using the Robinson-Type floor tester.

ASTM D412 STANDARD

Test method for vulcanized rubber and thermoplastic elastomers-Tension.

ASTM E90 STANDARD

Test method for laboratory measurement of airborne sound transmission loss of building partitions and elements (STC 55).

ASTM E492 STANDARD

Test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine (IIC67).

DESCRIPTION

ECHO-MAT is a self-adhesive membrane with a thickness of 1 mm that will soundproof your installation against impact sounds and vibrations. This product is specifically designed to be used under ceramic tiles, porcelain and natural stones. The membrane allows your installation to withstand structural movements and concrete shrinkage. ECHO-MAT also allows to counteract the possibility of horizontal cracks up to 3/8" without shifting the burden of stress to your installations of tiles or natural stones.

ECHO-PRIME is a highly adherent water-based primer ideal for use on interior applications. Offered in concentrated form, this primer can be mixed on the job site with clean water or used in its concentrated form depending on the condition and porosity of the substrate. Must be employed in its concentrated form for vertical applications.

CHARACTERISTICS

- Perfect to withstand structural movements.
- Allows sound control.
- Makes tile installation possible in the same day.

PACKAGING

- Unit 75 ft²: 16 oz of primer, membrane of 3' x 25' and a knife and instructional sheet
- Roll 225 ft²: Membrane of 3' x 75'
- Primer: Bottle of 4 L

TECHNICAL NOTES

Always use ECHO-PRIME primer when installing the ECHO-MAT in order to ensure a flawless installation. Store both products in a dry area at temperatures between 10°C to 32°C. The membrane and primer must be protected from freezing. Do not store in direct sunlight. Do not remove from box until ready to use.

TECHNICAL DATA AT 22°C

Drying time	ECHO-MAT = no
	ECHO-PRIME = 2 to 4 hour
Thickness	1 mm
Color	ECHO-MAT = Black and white
	ECHO-PRIME = White
Levels of VOC	0 g/L
Coverage	40pi ² – 50pi ² / L (non diluted)
	100pi ² – 125pi ² / L (diluted)

INSTRUCTIONS

SUPPORT



The substrate is probably the most important factor to ensure a long term, hassle-free installation. Please refer to the Technical Bulletin «Substrates» on the website. The substrate must comply with the rules established by TTMAC and TCA.

SURFACE PREPARATION

The areas receiving the ECHO-MAT and ECHO-PRIME should be dry, solid and free of any substances (wax, sealants ect.) that could affect adhesion (in accordance with industry standards as specified by TTMAC and TCA).

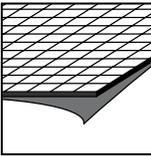
APPLYING THE ECHO-PRIME



Thoroughly mix the concentrate ECHO-PRIME, with a ratio of 1 part concentrate to 2 parts water for an horizontal installation. On vertical surfaces, porous or altered by time, the primer must be used at its full concentration. If the primer is left standing for a long period of time, mix once again before using it. Prepare only the quantity of primer that can be used in half a day.

Apply primer onto the surface evenly by using a brush or a paint roller with short hair. The covering power of the ECHO-PRIME may vary depending on the porosity of the surface to be covered. The ECHO-PRIME must dry completely before installing the ECHO-MAT. Once the treatment is completed, the primer remains sticky to the touch but will not delaminate from the surface.

APPLYING THE ECHO-MAT



There are three installation methods:

- 1) Crack isolations
- 2) Full floor coverage
- 3) Vertical application

NOTE - There will be an immediate and aggressive bond of the membrane to the primed subfloor. Realignment of the membrane can be difficult once adherence to the subfloor begins.

1 - CRACK INSULATION

Apply primer on the area as previously described, and allow to dry. Cut the desired length(s) of ECHO-MAT to cover the crack or the area of distress as follows:

1. Crack should be covered with a minimum of 6" (152 mm) in any direction.
2. Membrane must have a minimum of 1 1/2 times the width of the tile (without joints).
3. If any portion of a tile extends over a crack, the tile must rest completely on the membrane.

NOTE - If membrane width does not meet the above criteria, turn the membrane 90° and apply the adequate lengths perpendicular to the crack. Assemble multiple strips end to end in order to cover the length of the crack.

To apply membrane, carefully remove the first inches of the protective paper. Align 6" (152 mm) at the beginning of the crack and press into place. Continue removing the protective paper exposing the adhesive bottom, while applying the membrane onto the primed surface. Continue smoothing the membrane as it comes into contact with the primer, which is essential for maximum adhesion and minimize air entrapment underneath the membrane. Repeat as necessary.

2 - FULL FLOOR COVERAGE

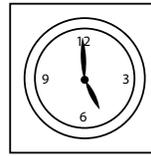
Apply ECHO-PRIME on the area as described previously, and allow to dry. Pull one half of the membrane on top of the other half. Lightly notch the paper at the halfway point. Do not cut through the adhesive. Begin pulling the release paper off the upper section and apply the exposed adhesive side to the primed surface, smoothing the membrane as the adhesive comes into contact with the surface. Once completed, pull the other half of the membrane ECHO-MAT on top of the already applied part. Pull the remaining release paper off the membrane while smoothing the ECHO-MAT into place.

Pre-cut a new sheet of ECHO-MAT and align the new membrane sheet next to the already installed Echo-mat as indicated above. If air is trapped beneath the membrane, simply puncture it with a sharp instrument and press the sheet flat. For maximum performance, ensure that 100% of the surface is in contact with the primed substrate.

3 - VERTICAL APPLICATION

Prime the surface with ECHO-PRIME in its concentrated form as described previously (do not dilute). Apply the membrane as previously described, starting the membrane application from the top of the vertical surface. For vertical applications, see LIMITATIONS section.

CURING



There is no curing time for the membrane. After membrane is adhered, ceramic, porcelain or stone tiles can be installed with a latex-modified thin-set mortar meeting the ANSI 118.4 & 118.11 standard. Follow mortar manufacturer's recommendations for trowel size and open time. For natural stone installations, see LIMITATIONS section.

LIMITATIONS

- ECHO-MAT is not intended for use as a water-proofing membrane.
- Do not install over wet primer.
- Not recommended for use on concrete floors where hydrostatic head pressure exists or moisture vapor transmission in excess of 3 lbs is present.
- Not recommended for use where horizontal floor movement is greater than 1/4" (6.4mm).
- Existing cracks larger than 3/16" (4.8mm) should be prepared with proper backing material prior to installation of membrane.
- Not recommended to cover joints or cracks larger than 1/4" (6.4mm).
- Not recommended for use where vertical floor movement is present.
- Do not apply over marine-grade plywood or other substrates containing solvent based waterproofing preservatives that could chemically react with the membrane.
- Do not use solvent based sealants or sealers where contact with membrane may occur.
- When installing natural stone over ECHO-MAT, it is important to maintain a thinset thickness of 3/8" (9.5 mm) or less after the tile is embedded, even if the mortar manufacturer allows for thicker installations. Thicker mortar beds can potentially provide sufficient moisture to cause some natural stones to warp or crown.
- Not recommended for vertical applications exceeding 8' (2.4 m) in height.

WARRANTY

The product is guaranteed for 5 years if installed as instructed by *La Margna inc.* of TTMAC and TCA. An extended warranty is available, see the accompanying literature on our website.

LEED



Leadership in Energy & Environmental Design (LEED) is a rating system for green building designs, operates, compares and certifies sustainable buildings around the world. The Green Building Council of Canada certifies the project based on the total of points obtained in an audits and review of documentation submitted by the design team and construction.

INTERIOR ENVIRONMENT QUALITY:
Credit QElc3.2 Option 3 - Indoor Air Quality
QElc4.1 Credit - Low-Emitting Materials

Please refer to the PROFIX website for letters of certification.

HEALTH & SAFETY

Consult Material Safety Data Sheet on the website for safe-handling instructions.

TECHNICAL SUPPORT

For questions, please contact our customer service PROFIX toll free:
1-800-463-6850 or info@profixsystems.com.

PROFIX is a registered trademark.

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LIABILITY

Before using, the user shall determine the suitability of this product for its intended use and the user alone shall assume all risks and liabilities in connection therewith. La Margna Inc. shall not accept any liability for any damage, loss or prejudice resulting from the direct or indirect use of our product in non-compliance to our specifications. • April 1, 2012