



ECO SYSTEMSTM



ECO SILENT MAT

ECO SYSTEMSTM ECO-SILENT MAT is a resilient high performance durable acoustic underlay that provides an isolating layer between structural components or finishes and substrates to significantly reduce and minimise the transfer of impact energy and sound through the substrate, ECO-SILENT MAT is designed for use under tiles, timber and vinyl floors. ECO SYSTEMSTM ECO-SILENT MAT is crush resistant and provides excellent noise reduction, vibration reduction and thermal insulation in a variety of building applications. Easy to install, ECO SYSTEMSTM ECO-SILENT MAT is made from recycled rubber, remains permanently flexible and is resistant to ageing and degradation. ECO SYSTEMSTM ECO-SILENT MAT is available in a range of thicknesses, making it suitable for a variety of flooring system applications. ECO SYSTEMSTM ECO-SILENT MAT is suitable for use with ECO SYSTEMSTM ECO-SILENT MAT ADHESIVE.

RECOMMENDED FOR

- Reduces noise transmission in residential and commercial applications
- Reduces vibration transmission in residential and commercial applications
- Provides thermal insulation for residential and commercial applications
- Does not expand or extrude laterally when compressed
- Permanently flexible
- Easy to cut and install

AREAS OF USE

- Residential and commercial applications
- Interior and exterior¹ applications
- Any area where impact noise, vibration or thermal insulation is required
- For use over a wide variety of substrates
- Compatible with under floor heating systems

¹Eco Silent Mat must be covered by a CTATM approved waterproofing membrane when used for internal wet area and uncovered external applications.

SURFACE PREPARATION

Before laying the ECO SYSTEMSTM ECO-SILENT MAT ensure that all surfaces are clean, dry, free from dust, grease, wax, oil, laitance, curing compounds, release agents, paint, coatings, friable material and all other contaminants likely to prevent the adhesive bonding. The surface should be flat and even unless falls are incorporated where required. Contact the CTATM Technical Department for further information.

SUBSTRATES/BACKGROUNDS

Concrete Floors

Allow at least 7 days for the concrete to cure. Concrete should be left with an open surface standard helicopter finishes are generally acceptable if they display the "Moderate water absorption" in the substrate test. Wood float or broom finish is preferred where possible. All traces of curing compounds (or sealers) should be removed prior to installation of ECO SYSTEMSTM ECO-SILENT MAT as these can act as release agents. The surface should be flat and even unless falls are incorporated where required. If necessary, level floors using ECO SYSTEMSTM ECO LEVEL self levelling underlayment.

Sand/Cement Screeds and Renders

The screeds and/or renders must conform with the appropriate standard and should be left with a wood float finish and left to cure for at least 24 hours per 25mm thickness.

Compressed Fibrous Cement Sheeting

Boards must be solidly fixed in accordance with manufacturer's instructions specifically for tiling and should be dry wiped prior to installation of ECO SYSTEMSTM ECO-SILENT MAT.

CTATM Certified Waterproofing Membranes

Waterproofing membranes must be allowed to cure as per the product's specification.

APPLYING

- **Installation of ECO SYSTEMS™ ECO-SILENT MAT to the substrate:** Use ECO SYSTEMS™ ECO SILENT MAT ADHESIVE to adhere mat to the substrate. Measure and pre cut ECO-SILENT mat to fit the required size. Apply ECO-SILENT MAT ADHESIVE to the prepared substrate using a 4mm 'V' notch trowel. Ensure mat is fully bedded into the adhesive before it skins, firmly press to ensure good contact and smooth out. All sheet joints must be tightly butted with no gaps or ripples on the matting. Cover joints between mats with a tape or fill the gaps with AQUABLOK™ JOINT SEAL polyurethane sealant to prevent tile adhesive penetrating to the substrate, which may cause a sound bridge. Refer to current product technical data sheet for further installation directions.
- **Installation of tiles directly over ECO SYSTEMS™ ECO-SILENT MAT:** Use PROHESIVE™ ULTRAPRO or PRO 2 PART, MCB™ A – 100 or A – 40. The tile installation must have a minimum 5mm perimeter joint that is filled with a suitable elastomeric sealant such as POLYBLEND™ S1 silicone. The tile installation must not abutt any restraining surfaces such as walls and columns which may cause a sound bridge for flanking noise. Refer to current product technical data sheet for further installation directions.
- **Installation of waterproofing membrane directly over ECO SYSTEMS™ ECO-SILENT MAT:** Use AQUA BLOK™ SBR or 2 PART waterproofing membrane. Waterproofing membranes must be allowed to cure as per the product's specification. Refer to current product technical data sheet for further installation directions.
- **Installation of screed over ECO SYSTEMS™ ECO-SILENT MAT:** Use a mixture of 3 parts washed sand and 1 part cement mixed with 3 parts water and 1 part PROHESIVE™ PROLASTIC or MCB™ ADMIX A to fortify the screed mix. When a screed is being applied over the ECO-SILENT MAT the mat return should be to the depth of the screed to isolate and prevent a sound bridge. The screed must conform with the appropriate standard and should be left with a wood float finish and left to cure for at least 24 hours per 25mm thickness. Refer to current product technical data sheet for further installation directions.

ECO-SILENT MATT Issue 22\05\2013

INCORPORATING MOVEMENT JOINTS

Movement Joints must be installed according to Australian Standard AS3958.1 - 2007.

STORING

When ECO SYSTEMS™ ECO-SILENT MAT is stored in its original unopened package in a dry area off the ground at a temperature of 23°C and a relative humidity of 60%, it should be usable for approximately 48 months.

HANDLING

CTA™ supports best practice in material handling: Gloves, mask and protective clothing should be worn. For further information refer to product MATERIAL SAFETY DATA SHEET.

DIMENSIONS

Available in 3mm, 5mm and 10mm thickness.

LIMITATIONS

- ECO SYSTEMS™ ECO-SILENT MAT is not suitable for continuous water immersion applications e.g.: swimming pools and spas.
- When laying ECO SYSTEMS™ ECO SILENT MAT in wet areas or externally, a CTA™ approved waterproofing membrane must be applied above the ECO-SILENT MAT.
- ECO SYSTEMS™ ECO-SILENT MAT is designed specifically for the purpose of impact noise, vibration reduction and thermal insulation. In situ field testing of sites by an accredited acoustic engineer is recommended to determine the suitability of this product for the project.
- The performance of ECO SYSTEMS™ ECO-SILENT MAT is specific to building design and construction.
- Sound bridge and flanking noise may significantly reduce the acoustic noise reduction performance.
- Contact CTA™ for advice if further information is required.

WARRANTY

Construction Technologies Australia warrants its products for a period of twelve (12) years from the date of sale. Visit www.ctaust.com.au to view the full terms and conditions of this warranty.

Page 2 of 2

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