

PRODUCT DATA SHEET

ECO-SILENT MAT

High performance acoustic underlay & isolating layer under floor finishes

DESCRIPTION

ECO-SILENT MAT is a resilient, high performance, durable acoustic underlay that provides an isolating layer between finishes and substrates to significantly reduce and minimise the transfer of impact energy and sound through the substrate.

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-SILENT MAT is made from recycled rubber, remains permanently flexible and is resistant to ageing and degradation.

USES

- Residential and commercial applications
- Interior applications¹
- 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 Sika approved waterproofing membrane when used for internal wet area applications.

CHARACTERISTICS / ADVANTAGES

- 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

PRODUCT INFORMATION

Packaging	4mm thick x 1m x 12m rolls
Shelf Life	Approximately 48 months when stored as stated.
Storage Conditions	Store in original, unopened packaging in a dry area off the ground at a temperature of 23°C and a relative humidity of 60%.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

USES

- ECO-SILENT MAT is not suitable for continuous water immersion applications e.g.: swimming pools and spas.
- When laying ECO-SILENT MAT in wet areas a Sika approved waterproofing membrane must be applied above the ECO-SILENT MAT.
- ECO-SILENT MAT is designed specifically for the purpose of impact noise reduction, 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-SILENT MAT is specific to building design and construction.
- Sound bridging and flanking noise may significantly reduce the acoustic noise reduction performance. Contact Sika for advice if further information is required.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Before laying 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 Sika for further information.

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-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 an appropriate Sikafloor® 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 the manufacturer's instructions specifically for tiling and should be dry wiped prior to installation of ECO-SILENT MAT.

Sika Certified Waterproofing Membranes

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

APPLICATION

Installation of ECO-SILENT MAT to the substrate: Use Eco Schonox Emiclassic 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' notched 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 SikaFlex®-11FC Purform polyurethane sealant to prevent tile adhesive penetrating to the substrate, which may cause a sound bridge. Refer to current product data sheet for further installation directions.

Installation of tiles directly over ECO-SILENT MAT: Use SikaCeram®-255 Starflex or Sikatile®-440 Opti-cure. The tile installation must have a minimum 5mm perimeter joint that is filled with a suitable elastomeric sealant such as Sikasil® Wet Areas. 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 data sheet for further installation directions.

Installation of waterproofing membrane directly over ECO-SILENT MAT: Use Sikalastic®-220 W, Sikatite® Undertile or Sikalastic® 152 waterproofing membrane. Waterproofing membranes must be allowed to cure per the product's specification. Refer to current product data sheet for further installation directions.

Installation of screed over ECO-SILENT MAT: Use SikaScreed®-1 mixed with 3 parts water and 1 part SikaCeram® T-Latex 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 data sheet for further installation directions.

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

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal

conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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