

Dukkaboard Evo-Mat Decoupling Underlayment Technical datasheet

Product Overview

Evo-Mat is a high-performance decoupling underlayment designed to neutralize stresses between tile coverings and substrates. It consists of a resilient honeycomb membrane laminated to a waterproof and breathable layer, offering acoustic insulation and crack-bridging capabilities. Ideal for use in both renovation and new-build projects.

Functions

- Decoupling Layer: Absorbs movement and stress from the substrate, preventing cracks from transferring to the tile surface.
- Waterproofing: Acts as a bonded waterproofing layer when installed with appropriate sealing accessories.
- Acoustic Insulation: Reduces impact noise transmission through floors.
- Vapour Pressure Equalisation: Allows moisture to dissipate through interconnected air channels.
- Load Distribution: Supports point loads and prevents tile damage under pressure.

Applications

- Interior floors (for direct tile installation, or under thin levelling compound layer)
- Wet room floors; i.e. bathrooms, and kitchens, living spaces.
- External floors, i.e. high-rise cantilever balconies and ground level garden patios / terraces
- Renovation over cracked or moisture-sensitive substrates

Suitable Substrates*

- Cement and calcium sulphate screeds
- Concrete
- Heated floors
- Plywood and chipboard.
- Existing tile or stone coverings

* Some applications need specialist advice. Always consult a professional.



Contact your Dukkaboard representative for technical advice and pricing.

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Material Properties

Composition: Polypropylene castellated core structure with laminated adhesion-enhancing membrane

Thickness: Approx. 3.5mm

Colour: Violet core with white laminated under-side

Temperature Resistance: -40°C to +80°C

Chemical Resistance: Resistant to salts, acids, alkalis (low concentrations)

Biological Resistance: Rot-proof, resistant to fungi and bacteria.

Technical Specifications

Property	Standard	Value	Tolerance
Composite Weight	EN ISO 9864	625g/m ²	±10%
Thickness @ 2kPa	EN ISO 9863-1	3.5mm	±0.5mm
Pull-Out Strength (28 days)	EN 1348	0.4 N/mm ²	+0.2N/mm ²

Installation Notes

- Ensure substrate is clean, level, and load-bearing.
- Use a suitable flexible adhesive (EN 12004 C2) to bond Evo-Mat to the substrate.
- Embed the membrane using a sheet roller device, or with care, using a tiler's trowel or grout float.
- Seal joints using compatible waterproofing tapes and accessories from the Dukkaboard range of accessories (see documents on Deco-Shield tape, Iso-Koll adhesive).
- Tiles may be installed directly over Evo-Mat using thin-bed adhesive.



Certifications & Testing

- Tensile adhesion strength tested to DIN EN 1348
 - Complies with acoustic insulation standards for impact noise reduction
 - Suitable for use in waterproofing assemblies per European Technical Approvals
- EPD certificate available (see document PGC-DMEV).

Dimensions and Packaging

Item Code	Roll Length	Roll Width	Roll Area	Rolls per Pallet	Rolled Diameter	Weight per Roll
4052	5m	1m	5sqm	63	13cm	3.124kg
4053	30m	1m	30sqm	12	30cm	18.75kg

Storage

- Store in a dry, shaded area, where possible, kept standing upright.
- Protect from prolonged UV exposure, from insect and water ingress, and from contact with the ground.
- Opened rolls tend to unwind themselves and prolonged storage like this the rolls can develop elastic deformation which can be avoided by proper storage, in unopened original packaging.
- It is not advisable to store pallets stacked for any length of time.
- Protect from mechanical damage including crushing roll during transport and handling.



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