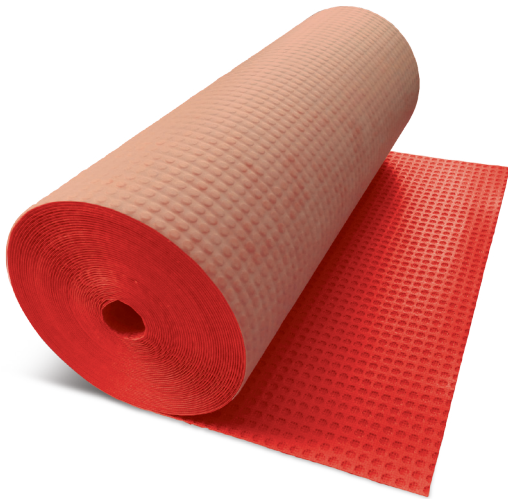


StoneFix Crack Isolation Matting



DESCRIPTION:

StoneFix Crack Isolation Matting, used in conjunction with StoneFix Ci75 or StoneFix Rapid Set flexible adhesive, forms an easy to use, highly flexible crack prevention system which combines the functions of uncoupling, waterproofing and vapour equalisation.

This versatile crack isolation mat is especially suitable for laying tiles on problematic substrates.

FEATURES:

- Highly Flexible
- Anhydrite / Concrete Screeds
- Easy to Use
- Chipboard / Plywood
- Rot Proof
- Underfloor Heating



CONTACT DETAILS:

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THE PROBLEMS

Moisture from above

Tiling in itself is not waterproof: junctions to fittings and walls are particularly susceptible to water ingress which can damage the foundation.

Moisture from below

In the case of anhydrite screed, residual moisture from the screed can collect under the installed tiles and damage the adhesive bond. Accordingly, tiles must only be installed following attainment of a residual moisture content of $> 0.5\%$, or 0.3% in the case of installations with under floor heating, as measured with a moisture reading device.

Foundation stress

Depending on the structural design and the materials used, the foundation can be subjected to stress which could then be transferred to the tiling and result in cracks (bridge over cracks up to 0.4 mm). In the case of concrete, for example, creeping and contraction can lead to deformations after periods lasting as long as 6 months to several years. Cement floors and heated screed can also experience movement after being covered by tiles or slabs. Similarly, chipboard and compressed board deform notably through moisture absorption.

Foundation cracks

During restorations of old wooden or tiled floors, cracks in the foundations can occur so that secure installation of the new tiles is no longer guaranteed.

Heated screed

StoneFix Crack Isolation decoupling mats can safely be laid on any kind of heated screed foundation without any impairment of the heating performance. The mats should be adhered with the heating switched off, using a suitable flexible adhesive conforming to DIN EN 12004 C2. It is also possible for electrical or hot water heating systems to be laid directly on top of StoneFix Crack Isolation mat. Heating pipes must be installed in accordance with the applicable specifications of the manufacturer. Such specifications vary but will commonly involve the pipes being embedded fully in a layer of levelling compound. For heated floors the thermal resistance over the entire area of the ceramic flooring must not exceed $0.15 \text{ m}^2 \text{ K/W}$ in accordance with DIN 1264 (Underfloor heating systems and components).

THE SOLUTION

StoneFix Crack Isolation mat has an installation height of approximately 3.0 mm. The mat is made of yellow polyethylene. The indented structure and laminated grid achieve a strong bond to tile adhesives. The material is elastic, rot proof and resistant to aggressive substances and liquids such as alkalis, solvents and oils. It is also highly impervious to water vapour diffusion. StoneFix Crack Isolation bridges cracks, decouples floor coverings from their substrates, and is suitable for producing seals bonded with floor tiles.

PRODUCT CHARACTERISTICS

StoneFix Crack Isolation is especially suitable for installing tiles on difficult substrates.

Sealing in outdoor situations

StoneFix Crack Isolation in conjunction with tiled flooring can, for example, prevent penetration of balconies or patios by seepage of water used in the construction process.

Sealing in extremely wet areas

Even in areas heavily exposed to moisture, such as changing rooms and swimming pool halls, StoneFix Crack Isolation is suitable as a bonded sealing membrane for tiling.

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Crack bridging

The crack bridging properties of the mat make it extremely suitable for installation as part of restoration measures. For example, this mat permits installation of tiles on to old and damaged coverings ("tiling on tiling"). However, major variations in the heights of the substrate cannot be remedied using Crack Isolation Mat, this should be done using StoneFix XP250 self levelling compound. StoneFix Crack Isolation is particularly suitable for laying tiles on difficult foundations.

Installation of tiles on wooden foundations

StoneFix Crack Isolation decouples coverings from their foundation, thus permitting installation of tiles on foundations which experience linear expansion and contraction in response to changes in temperature and humidity. StoneFix Crack Isolation mat can also be used to install tiles on chipboard or wooden floorboards following appropriate preparation.

Installation of tiles on poured asphalt

StoneFix Crack Isolation makes it possible to install tiling which is resistant to long-term damage even on problematic substrates such as poured asphalt and similar bituminous load-bearing compounds.

Installation on fresh foundations

StoneFix Crack Isolation allows for reverse compensation of vapour pressure, which allows for installation of tiles onto foundations which are still wet (green). This is especially practical on foundations comprising anhydrite floating screed. StoneFix Crack Isolation mats make it possible to install tiles on anhydrite screed that have achieved a residual moisture content of 2%. Usually, this eliminates the need for elaborate pre-treatment and special adhesives.

INSTALLATION

- 1)** The foundation must be stable, level, free of loose material and primed using StoneFix acrylic primer. Before installation, StoneFix Crack Isolation mats are cut to the required dimensions. Tile adhesive is applied to the foundation by means of a 4 x 4 mm serrated trowel. The tile adhesive must be matched with the substrate. Best results are achieved with a C2FT/S1 tile adhesive. Recommendations for ideally matched products can be obtained directly from the StoneFix helpline. Alternatively StoneFix Ci75 can be applied using a 2-3mm notched trowel.
- 2)** After that, the mats are pressed into place with their carrier fleece facing downwards and tapped down with a hammer. The tile adhesive must achieve a strong mechanical bond with the carrier fleece under the StoneFix Crack Isolation mat. The mats should be laid into the tile adhesive before it dries. Some protection may need to be provided to prevent damage to the mats.
- 3)** Joints, wall junctions and transitions should be joined with strips of WP sealing strip. StoneFix Crack Isolation mats should be split over existing expansion joints (coverings with a large area should be divided into segments in compliance with applicable specifications and bordered by expansion joints).
- 4)** Once the adhesive for the matting has thoroughly hardened, all recesses should be filled in so that they are flush over their entire area using tile adhesive. The laying of tiles can then begin. When laying tiles outdoors adhesive must be applied over the full area (combined laying method) to avoid damage to the flooring. If the weather is bad when tiles are being laid outdoors (e.g. rain or low temperatures), it is recommended that suitable quick-bonding flexible adhesive conforming to DIN EN 12004 C2 FT/S1 be used.

Data:

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|----------------------|----------------------------------|
| Material: | HDPE (high-density polyethylene) |
| Installation height: | 3 mm |
| Roll width: | 1,000 mm |
| Available lengths: | 15 or 30 metre rolls |
| Colour: | Yellow |

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