

Product Characteristics

G-MAT is especially suitable for installing tiles on difficult substrates.

Sealing in extremely wet areas

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

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 an installation of tiles on old and damaged coverings ("tiling on tiling"). However, major variations in the heights of the substrates cannot be accepted!

Installation of tiles on wooden foundations

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

Installation of tiles on poured asphalt

G-MAT makes it possible to install tiling resistant to long-term damage even on problematic substrates such as poured asphalt and similar bituminous load-bearing compounds.

Installation on fresh foundations

G-MAT allows a reverse compensation of vapor pressure, this allows an installation of tiles onto foundations which are still wet (green). This proves especially practical on foundations comprising anhydrite floating screed. G-MAT 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.

- G** - Genesis the company that offers all your tiling and flooring requirements.
- M** - Matting - a decoupling membrane used when fixing floor tiles to wooden floors.
- A** - Affordable - Competitively priced and available in 5,10 & 30m rolls.
- T** - Time Saving - No need for cutting, fixing and bonding plywood. Fixed using floor tile adhesive.

Bigger isn't always better...



...G-MAT, now available
in 5, 10 and 30m rolls

so you don't need to buy anymore
than you have to.



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The Problems

1. 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.

2. 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 constructions with under floor heating, as measured with the CM device.

3. 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.

4. Foundation cracks

During restorations of old wooden or tiled floors, cracks in the foundation can occur which no longer guarantees a secure installation of the new tiles.

The Solution

The G-MAT has an installation height of approximately 3.0 mm. The mat is made of grey polyethylene. The indented structure and laminated grid achieve a strong bond to thin-bed mortars. 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-vapor diffusion. G-MAT bridges cracks, decouples floor coverings from their substrates, and is suitable for producing seals bonded with floor tiles.

Installation

The foundation must be stable, level and free of loose material. Before installation, the G-MAT mats are cut to the required dimensions. The thin bed mortar or fluidized-bed mortar 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 usually achieved with thin bed mortar, flex mortar or fluidized-bed mortar requiring hydraulic setting.

After that, the mats with their carrier fleece are pressed into place. The thin-bed mortar must achieve a strong mechanical bond with the carrier fleece under the G-MAT mat. Firmly and evenly use a trowel (for large industrial areas use a vibration machine). Access crawl boards should be used to prevent damage to the mats during installation.

G-MAT should be split over expansion joints (coverings with a large area should be divided into segments in compliance with applicable specifications and bordered by expansion joints).

The tiles can then be installed directly onto the mats using thin bed mortar. The general specifications of DIN 18157 are to be observed in this process.



Material / Installation height	Roll width / Available lengths	Colour
HDPE (high-density polyethylene) / 3 mm	1m / 5m, 10m & 30m	Grey