

# Anti-fracture Mat

## Anti-fracture / Uncoupling Matting for Floors Subject to Limited Movement

- Three layer Anti-fracture / Uncoupling mat designed to accommodate lateral movement in sub-floors for tile installations on floors
- Genuine fast-track system, can be tiled over immediately after the mat has been applied.
- Only 0.85mm thick – minimises height build-up
- Ideal for plywood overlay and T & G floorboards
- Ideal for underfloor heating systems
- Use below ceramic, porcelain & natural stone tiles
- Easy to install, simply cut and place.

LOW  
HEIGHT  
Build Up

FAST  
TRACK  
SYSTEM

EASY TO  
INSTALL



# TILEMASTER ANTI-FRACTURE MAT

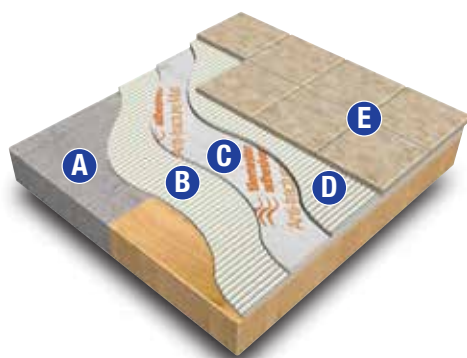
## Anti-fracture / Uncoupling Matting for Floors Subject to Limited Movement

### DESCRIPTION:

Tilemaster Anti-fracture Mat is an anti-fracture / uncoupling matting designed for use on floor tile installations where there is a need to absorb and accommodate limited lateral movement. Tilemaster Anti-fracture Mat can be used in a wide range of applications in order to accommodate the lateral movement from substrates and also bridge stress / shrinkage cracking therefore preventing movement being transferred to the tiled finish. The matting can be used when installing a large variety of tiles including ceramic, porcelain and natural stone tiles. Tilemaster Anti-fracture Mat is designed to be used on interior floors and it can be used as part of a renovation or new construction. Tilemaster Anti-fracture Mat is ideal for domestic and commercial applications in light, medium and heavy duty environments.

### SUBSTRATES:

- |                                       |                        |
|---------------------------------------|------------------------|
| ✓ Sand/Cement Screed                  | ✓ Anhydrite Screeds    |
| ✓ Concrete                            | ✓ Fibre Cement Sheet   |
| ✓ Plywood Overlay                     | ✓ T & G Floorboards    |
| ✓ Chipboard Overlay                   | ✓ Floating Floors      |
| ✓ Electric Underfloor Heating         | ✓ Existing Vinyl Tiles |
| ✓ Water/Wet System Underfloor Heating | ✓ Steel/Metal Surfaces |
| ✓ Tile Backer Boards                  | ✓ Fibreglass           |
| ✓ Tile on Tile                        | ✗ Green Screed         |
| ✓ Flooring Grade Asphalt & Bitumen    |                        |



- A** Solid Substrate or Timber Substrate
- B** Rapid Setaflex Trade FlexiRapid Ultimate
- C** Tilemaster Anti-fracture Mat
- D** Rapid Setaflex Trade FlexiRapid Ultimate  
*The equivalent Standard Setting adhesive is also suitable*
- E** Grout 3000 Flexigrout

### ADDITIONAL BENEFITS:

- Cuts costs and uses 20% less adhesive than traditional cavity mats
- Saves 30kg of tile adhesive per 20 metre roll
- Prevents substrate lateral movement and stress / shrinkage cracking from affecting the tiled finish
- Simply butt-joint the matting. Overlapping or the use of jointing tape is not required
- Genuine fast track system, can be tiled immediately after fitting the mat

### PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the anti-fracture mat, tiles, tile adhesive and grout. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion.

### APPLICATION:

1. Ensure that the substrate is even and able to bear the weight of the flooring to be installed.
2. Some substrates will require priming with Tilemaster Primeplus, see page 3.
3. If the substrate is uneven and/or in poor condition, consider applying one of the Tilemaster Self Levelling Compounds in order to smooth and level the substrate.
4. Apply a thin bed of a suitable Tilemaster flexible tile adhesive, e.g. Rapid Setaflex, using a 4mm notched trowel or a mosaic trowel.
5. Roll out the Tilemaster Anti-fracture Mat (grey side down) into the freshly trowelled adhesive, within the adhesives open time. If the adhesive has started to skin over or set, then this adhesive must be removed and a fresh layer applied.
6. Care must be taken to fully ensure that the Tilemaster Anti-fracture Mat is fully compressed into the bed of adhesive leaving no air voids. This can be achieved by pressing down and smoothing out the mat with the use of the flat edge of a trowel or suitable float or roller.
7. When applying rolls of Tilemaster Anti-fracture Mat side by side, ensure the separate mats are butt jointed at the edges but not overlapping. Remove any excess adhesive that has squeezed through.
8. Tiling can commence immediately after the Anti-fracture Mat has been applied. Follow the instructions on the Tilemaster flexible adhesive being used taking care not to catch and/or de-bond the Tilemaster Anti-fracture Mat when applying a layer of Tilemaster adhesive and tiles.

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### **SUBSTRATE PREPARATION GUIDE:**

**Concrete:** New concrete must be allowed a minimum of 6 weeks drying time. As an approximate guide for drying times, allow 1 day per mm up to an overall depth of 50mm and 2 days per mm for anything above 50mm. Remove any laitance from the surface mechanically and ensure that mould oil, curing agents and any other contaminants are removed. Remove all dust and dirt ideally by vacuum. Prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus and allow to dry. Very porous substrates will require more than one coat. If the concrete screed is uneven and/or in poor condition, consider using one of the Tilemaster Self Levelling Compounds such as Levelflex prior to installation of the Tilemaster Anti-Fracture Mat.

**Sand/Cement Screed:** New sand/cement screed must be left for a minimum of 4 weeks to dry sufficiently. Remove any laitance from the surface mechanically and ensure that mould oil, curing agents and any other contaminants are removed. Remove all dust and dirt ideally by vacuum. Prime the surface with Primeplus diluted 3 parts water to 1 part Primeplus and allow to dry. Very porous substrates will require more than one coat. If the sand/cement screed is uneven and/or in poor condition, consider using one of the Tilemaster Self Levelling Compounds such as Levelflex prior to installation of the Tilemaster Anti-Fracture Mat.

**Flooring Grade Asphalt/Bitumen:** Ensure that the flooring grade asphalt/bitumen is in good condition and that there are no signs of debonding and/or hollowness. Make sure the surface is dry and free of any contaminants, loose dust or dirt. Prime the surface with one coat of Primeplus Slurry Mix. The Slurry Mix consists of 1 part water to 1 part Primeplus mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing. Tilemaster Rapid Setaflex or Ultimate adhesive must be used to adhere the mat onto asphalt/bitumen substrates.

**Existing Ceramic, Porcelain & Natural Stone Tiles:** Ensure the surface is dry and free of any contaminants, loose dust or dirt. Existing tiles that have been previously treated with sealer must be sufficiently cleaned in order to remove any surface treatments. Prime the surface with one coat of Primeplus Slurry Mix. The Slurry Mix consists of 1 part water to 1 part Primeplus mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing.

**Plywood Overlay:** Prior to tiling, ensure that new or existing boards are dry, i.e. conditioned to the environment in which they will be used. Plywood must be 12mm (minimum), exterior grade, screwed (not nailed) to substrate at 6 inch/150mm centres. Ensure there is sufficient ventilation beneath substrate and that the plywood has been fitted competently and will take the weight of the tiles, tile adhesive and grout. Make sure the surface is dry and free of any contaminants, loose dust or dirt. The top surface of the plywood does not require priming prior to tiling. Prime the reverse side and edges of the plywood with neat Primeplus.

**Chipboard Overlay:** Prior to tiling, ensure that new or existing boards are dry i.e. conditioned to the environment in which they will be used. Chipboard must be a minimum of 18mm and must be screwed (not nailed) to the substrate at 6 inch/150mm centres. Ensure there is enough ventilation beneath the substrate and that the chipboard has been fitted competently and will take the weight of tiles, tile adhesive and grout. Make sure the surface is dry and free of any contaminants, loose dust or dirt. The top surface of the chipboard does not require priming prior to tiling. Prime the reverse side and edges of the chipboard with neat Primeplus.

**Underfloor Heating Systems:** When tiling onto existing underfloor heating you must switch the heating off 48 hours prior to tiling to allow the substrate to cool sufficiently. When tiling has been completed allow 1 week for full cure of tile adhesive and grout before switching the heating on. When doing so, start with a low temperature and gradually increase the temperature on a daily basis by no more than 2°C per day.

When tiling on to a new electric element underfloor heating system, Tilemaster Adhesives strongly recommend embedding the electric underfloor heating mat/element into a self levelling compound such as Levelflex or Rapid Level 30 in order to protect the heating element and to leave a perfect surface on which to apply tiles. Again, allow one week for full cure before switching the heating on, start with a low temperature and gradually increase the temperature on a daily basis by no more than 2°C per day.

**Underfloor Heated Screeds** should be commissioned prior to tiling. Turn on the heating system at a low temperature and heat the screed gradually by no more than 5°C per day until a maximum temperature of 25°C is achieved. Maintain this

temperature for 3 days and then switch the heating off 48 hours prior to tiling to allow the substrate to cool sufficiently. Alternatively in cold conditions, reduce the temperature of the screed to below 15°C prior to tiling. When tiling has been completed allow 1 week for full cure of tile adhesive and grout before switching the heating on. When doing so, start with a low temperature and gradually increase the temperature on a daily basis by no more than 2°C per day.

**Tongue & Groove Boarding and Floorboards:** Prior to tiling, ensure that new or existing boards are dry i.e. conditioned to the environment in which they will be used. Existing tongue and groove boards should be screwed to supporting joists at 300mm centres including any cross-noggings if necessary in order to provide a rigid, flat and adequately braced surface. Ensure there is sufficient ventilation beneath the substrate and that the substrate is strong enough to support the weight of the adhesive and tiles being applied. Make sure surface is dry and free of any contaminants, loose dust and dirt. New, clean floorboards do not require priming. Older floorboards that have been sanded or that are highly porous should be primed with one neat coat of Primeplus.

**Please Note:** Certain manufacturers of chipboard floorboard do not recommend their products for being tiled to directly due to the design of their particular board. If in doubt, please consult with the supplier of the board or alternatively contact our Technical Helpline on 01772 456831 for further advice.

**Anhydrite/Gypsum Screed:** Anhydrite/Gypsum screeds must be confirmed dry via consistent moisture readings across the whole floor. The residual moisture content of the screed must be less than 0.5%. Alternatively the relative humidity must be 75% or below. As an approximate guide for drying times, allow 1 day per mm up to an overall depth of 40mm and 2 days per mm for anything above 40mm. The drying of anhydrite/gypsum screeds can be assisted by commissioning the underfloor heating system, for further information, please contact our Technical Helpline. All anhydrite/gypsum screeds must be mechanically sanded/abraded in order to remove the laitance from the surface of the screed.

Tilemaster Adhesives recommend that Tilemaster Anhyfix adhesive is used to fix the Tilemaster Anti-fracture Mat to anhydrite/gypsum screeds. When using Anhyfix, prime the surface of the screed with one coat of Primeplus diluted 3 parts water to 1 part Primeplus and allow to dry. Once the Anti-fracture Mat has been fixed using AnhyFix, either AnhyFix or a cement based adhesive such as Rapid Setaflex or Ultimate can then be used to fix tiles to the Tilemaster Anti-fracture Mat. If further advice is required, please contact the **Technical Helpline on 01772 456831**.

**Tile Backer Board:** Ensure the surface is dry and free of any contaminants, loose dust or dirt. Prime the surface with one coat of Primeplus diluted 3 parts water to 1 part Primeplus and allow to dry.

**Existing Vinyl Tiles/Sheet Vinyl:** Make sure the existing vinyl tiles/sheet vinyl is firm, stable and well adhered to the substrate to which the vinyl was originally applied to. Ensure the surface is dry and free of any contaminants, loose dust and dirt. Prime the surface with one coat of Primeplus Slurry Mix. The Slurry Mix consists of 1 part water to 1 part Primeplus mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing.

**Metal Surfaces:** Make sure the surface is dry and free of any contaminants, loose dust and dirt and if required de-grease the surface of the substrate. Prime the surface with one coat of Primeplus Slurry Mix. The Slurry Mix consists of 1 part water to 1 part Primeplus mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing. Tilemaster Ultimate adhesive must be used to adhere the mat onto metal.

**Power Floated Concrete:** Ensure the surface has been allowed 7 days to cure. Power floated concrete can leave a loose top layer and/or laitance once it has cured. Remove the loose top layer and any laitance from the surface mechanically or by acid etching and remove all dust and particles ideally by vacuum. Once all laitance has been removed, prime the surface with one coat of Primeplus diluted 3 parts water to 1 part Primeplus. If the power floated concrete is uneven and/or in poor condition, consider using one of the Tilemaster Self Levelling Compounds such as Levelflex prior to installation of the Tilemaster Anti-fracture Mat.

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Composition:	Three layer composition: two outer layers of non-woven polypropylene with an inner butyl layer
Colour:	Grey base layer with a white branded top layer
Sheet Thickness:	0.85mm
Sheet Weight:	Approx. 445g / m <sup>2</sup>
20mtr Roll Weight:	Approx. 9.2kg
Pack Size:	20 metre roll x 1 metre wide
Shelf Life:	24 months when stored in cool and dry conditions away from direct sunlight

### **PLEASE NOTE:**

- Tilemaster Anti-fracture Mat is not suitable for bridging movement joints. These must be adopted in the top covering, corresponding with the joints in the substrate.
- Tilemaster Anti-fracture Mat is also not suitable for exterior use or in areas subject to constant immersion.
- Tilemaster Anti-fracture Mat cannot be used in areas subject to deflection (vertical movement).
- Not to be used in areas where parquet flooring is to be installed.

The information contained on this spec sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

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