

Floor waterproofing and crack suppression system

The problem

Most people have had issues in a wet area, where they have found tiles to crack over time and leaks appear to the room below or cause damage to the substrate below.



Moisture from above

Tiling in itself is not waterproof: Junctions to fittings and walls are particularly susceptible to water seepage which can damage the substrate.



Moisture from below

In the case of laying on green concrete screeds, residual moisture from the screed may accumulate under the tiles and damage the adhesive bond.



Substrate Stresses

Movement in the foundations and the flooring may cause cracks to appear in a tiled floor. It isn't possible to lay tiles directly on old and damaged foundations.

Cracks in the substrate

When renovating old timber or tiled floors, cracks may exist in the substrate which make the secure laying of new tiles impossible.

The solution

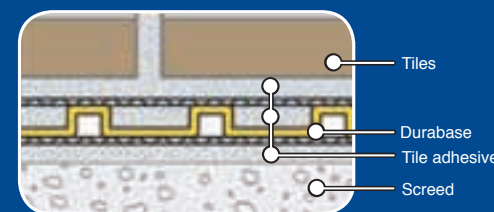
By installing a Durabase mat, any cracks in the foundation are prevented from affecting the tiles. The tile flooring is isolated from the foundation and thus remains undamaged. Tiles can therefore even be laid on old or problematic foundations with no difficulty.

- Prevents surface cracks caused by substrate movement
- 100% waterproof (When used in conjunction the durabase joint tape)
- Bridges cracks in substrate

- Faster and easier working filling the wide clover leaf holes
- Better resistance on heated surfaces with rapid expansion and contraction
- Wide clover leaves mean more adhesive in contact with the tile base
- PP mesh top layer gives perfect adhesion to the tile
- Fleece below the matting prevents excess adhesive entering air cavities
- Greater resistance to horizontal movement between the matting and substrate
- Suitable for use on newly laid concrete
- Ideal for old or problematic floors

Note: When laying onto wooden floors, please ensure it is structurally sound and level, and check with the adhesive manufacturer's instructions regarding any priming that may be necessary

Product specification



WATERPROOFING:	100% Waterproof (When used in conjunction the durabase joint tape)
PRODUCT USE:	Decoupling and sealing mat for use under ceramic flooring
UPPER MATERIAL:	Polypropylene (PP)
LOWER MATERIAL:	Polypropylene (PP)
HEIGHT OF PRODUCT:	3mm
THICKNESS OF TEXTURED FOIL:	0.5mm
WEIGHT PER UNIT AREA:	615g/m ²
TENSILE STRENGTH:	580 N/5 cm
PERMITTED TEMPERATURE RANGE:	-40°C to +80°C
CHEMICAL STABILITY:	Resistant to dilute acids, alkalis and salt solutions
ELECTRICAL PROPERTIES:	High electrical resistivity
LINEAR THERMAL EXPANSION COEFFICIENT:	175 x 10 ⁻⁶
BEHAVIOUR IN INSTANCE OF FIRE:	Normal flammability (B2 as per DIN 4102, Part 1)
TRANSPORT RESTRICTIONS:	Non-hazardous as per GGVSE/ADR and GGSV see/IMDG
DISPOSAL:	Non-hazardous, e.g. disposable along with normal domestic waste

how to install durabase C|++



STEP 1 - Make sure that the floor substrate is clean, dust free and sound with no vertical movement.

STEP 2 - Measure the areas to be covered and cut the Durabase matting to size using a utility knife, allowing for a 3-5mm expansion gap around the perimeter of the floor.

Note: a) Durabase will not protect against vertical movement and should not be used to bridge between substrates that expand and contract at different rates (e.g. wood and concrete) - movement joints must be used.

b) On large area concrete substrates, movement joints will be set in to the concrete at the required intervals. Do not put Durabase over these joints – cut and use a movement joint in the tiles.

c) When fitting over minor contours, e.g. bowed but secured floorboards, first use a latex-levelling compound.



STEP 3 - Apply the powder based flexible adhesive to the substrate using a 4mm notched trowel.



STEP 4 - Place the pre-cut matting onto the adhesive with the fleece face down and press in place. Tap down using a grout float and pressure or a rubber mallet and protective piece of timber or plywood (to distribute the load), ensuring a good bond with 100% coverage/contact between the substrate and matting.



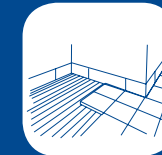
STEP 5 - Ensure all the indents of the matting are fully filled with adhesive, leaving no air pockets or voids. When walking on the matting at this stage, a board should be used to distribute your weight.



STEP 6 - Seal all joints, wall junctions and transitions using the Durabase WP sealing strip with the same adhesive.

STEP 7 - If the Durabase is being used in conjunction with Homelux waterproof matting as a tanking system, butt join the wall matting to the Durabase. Then, using the Homelux waterproof matting pre-formed corners, seal the angle with the waterproof tape and adhesive ensuring all the indents are fully filled with adhesive, leaving no air pockets or voids.

Note: Never seal the edges of the Durabase matting with silicone or mastic - leave space for expansion and air circulation as this enables moisture trapped under the mat to evaporate.



STEP 8 - Tile or stone can be installed immediately or after the recessed adhesive has dried. Follow the supplier's instructions as to the type of adhesive suitable for your particular type of tile. Note: The tile supplier should recommend the trowel notch size suitable for the adhesive and type of tile or stone used.

Note: Tiles below 20mm x 20mm should not be used with Durabase matting.

Installing electric undertile heating

STEP 1 - We recommend fitting the heating elements on top of the Durabase matting.

STEP 2 - Follow the instructions for fixing the Durabase then spread the adhesive evenly onto the matting, ensuring that all of the indents are fully filled leaving no air pockets or voids.

STEP 3 - Build up the adhesive or Self Levelling Compound on the matting by a further 1-2mm to give a good surface to apply the heater elements and allow to dry.

STEP 4 - Follow the manufacturer's instructions for the installation of the Undertile Heating system.

STEP 5 - Movement joints will need to be used at a maximum of 3.5m intervals.

STEP 6 - Do not switch on the Undertile heating until the adhesive and grout have fully dried (Up to 28 days)

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