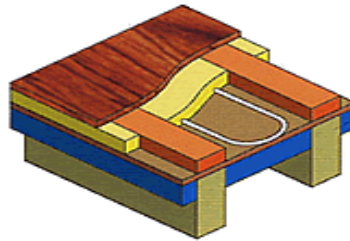
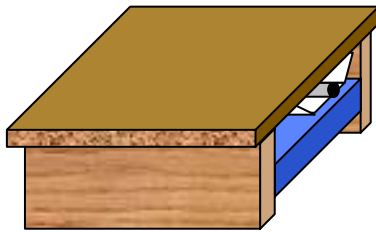


*This information should be considered to be informal and non-binding. The products must be used according to local conditions and materials. Instructions must be read carefully and followed closely. Where no previous experience is available, or in cases of doubt, test the product in an inconspicuous area.*

#### UNDERFLOOR HEATED SCREED

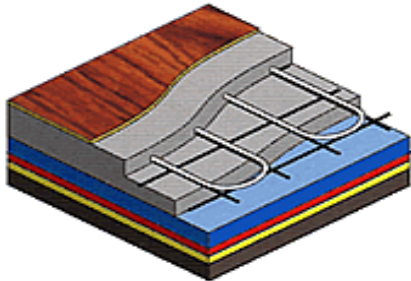


This is usually a water piped system which is installed in a minimum screed depth of 65mm, above the pipes, in accordance with British Standards. After the screed has “cured” it should be heated gradually to manufacturer’s recommendations

and then allowed to cool down completely before fixing floor tiles. If the screed cannot be heated prior to tiling or the screed has developed stress cracks, DITRA-MATTING should be used over the whole floor area to bridge potential or existing screed cracks to eliminate transference to the tiled floor covering.

After fixing tiles, leave heating switched off for at least 14 days before bringing the floor to a gradual operating temperature at a maximum rate of 5°C per day, up to a maximum temperature of 40°C

#### UNDERTILE HEATING



This is usually the electric mat or cable system and can be tiled directly over with stoneset adhesives. Alternatively prior to tiling, the electric mat can be bedded into a screed of weber.niv floor –self leveling compound–. This latter method prevents damage to the heating elements during the laying process.

DITTRA-MATTING can be installed above the mat to effectively isolate the tile covering from the heated substrate, thus preventing stresses from damaging the tile surface. DITTRA-MATTING will not inhibit heat transfer or reduce the efficiency of the heating system.

#### PROCEDURE

##### Use self-levelling compound and/or flexible adhesives

Highly polymer modified adhesives and grouts, such as stoneset adhesives and stoneset flexible SP grout have enough flexibility when set to accommodate the thermally induced movements. When applying an electrical undertile warming system, weber.niv floor –self leveling compound– can be used to cover the wires without damage under a self smoothing screed. Electrical systems that are powerful enough to heat the room are normally buried under a 50 mm screed, which acts as a thermal reservoir. With these and piped systems, the adhesive is applied directly to the screed. Wooden substrates need extra care and we recommend that our technical advice team is contacted for this substrate.

##### Stage 1: Preparation

Ensure that the floor is rigid, sound, clean dry and free from any contaminating barrier. Any underfloor heating system (water or electric) must be turned off and the floor allowed to cool. If the floor is wood, contact our free technical helpline for advice. Undertile warming: Prime porous and dense substrates with ibotac; prime impervious surfaces with iboprim. Allow to dry for a few hours.

**Stage 2: Undertile warming**

If appropriate, install the undertile warming system in accordance with the manufacturer's instructions and test that it works. Apply weber.niv floor –self leveling compound– (can be applied up to 10 mm deep) until the warming elements are covered by at least 3 mm. Allow 6 hours before foot traffic.

**Stage 3: Fix the tiles**

Fix the tiles with ston eset flexible sp rapid or ston eset thick bed adhesive and allow to cure before grouting. Grout the joints with ston eset flexible SP grout or ston eset fine wall & floor grout.

**Stage 4: Allow to cure**

Keep the heating/warming system turned off for at least 5 days, to allow the cement to cure. Bring the system up to its operating temperature gradually, in stages over a few days.