



The best underfloor heating - **guaranteed™**

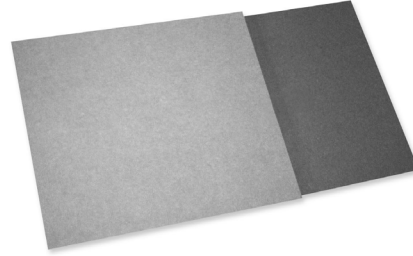
## Warmup® Dual Overlay Concrete with Hydronic Underfloor Heating

### Warmup® Dual Overlay Concrete

Warmup® Dual Overlay Concrete is a fast track floor preparation system for use as a dry screed. It provides a smooth and seamless subfloor making it suitable for a variety of floor finishes.

Installation is quick, clean and dry making it an easier option for installers as there is no need for self levelling. The low heat resistance allows heat to pass through the floor finish without any reduction to the efficiency, evenly distributing the heat and alleviating any hot spots.

Warmup® Dual Overlay Concrete consists of a base board and a top board. Both boards are provided with a contact adhesive, bonding them together to make one solid subfloor.



**NOTE:** Warmup Dual Overlay Concrete is suitable for wet areas. The subfloor must be permanently dry, clean and dust free

### Technical Specification

Warmup® Dual Overlay Concrete	
Composition	Cement, Silica (quartz), Cellulose and filling material, fitted with an interactive adhesive
Size	1200mm x 600mm Total - 12mm thickness
RM Value (m <sup>2</sup> .K.W. <sup>-1</sup> )	0.038
Tog	0.4
Fire Class, EN 13501: 2007	B <sub>s1</sub>

### Compatible floor coverings

Warmup® Dual Overlay Concrete is suitable for use with a variety of floor coverings such as carpet, vinyl, linoleum, wood & tiles.

**NOTE:** The heating **MUST NOT** exceed 27°C when installed under wood, carpet or vinyl flooring and should always be controlled via a floor sensor thermostat. The temperature should only be increased gradually.

If installing under a tiled floor temperatures should not exceed 35°C.

### Carpets and Underlays

Carpets and Underlay have a higher TOG value and a greater resistance to heat transfer, so it is important to choose carpets and underlays that have low Tog ratings. The thicker the carpet and underlay the longer the heat up time; this will have the effect of slowing the heat transfer of the flooring into the room.

It is important to check the suitability for use with underfloor heating. If you need to use an additional underlay ensure that it has a low Tog rating.

**NOTE:** The maximum combined Tog rating for the carpet, underlay and the Warmup® Dual Overlay Concrete should not exceed 2.5 Tog

### Important Notes for fixing carpet

To provide an even base a thin layer of fibre reinforced screed can be applied to the boards once they have been installed. Allow the screed to dry before installing the carpet finish.

When fixing carpet to the Warmup® Dual Overlay Concrete it is recommended to use a tackifier adhesive, stretch or glued method of carpet installation. When the carpet finish is to be glued, do not switch on the underfloor heating system until the glue has completely bonded. Ensure that the underlay which is placed over the boards and under the carpet has as little thermal resistance as possible.

If using the stretch method of installation the gripper must be installed before the heating system. In order for the gripper to function correctly, the top surface of the gripper should be level with the top surface of the boards. This can be achieved either by using an architectural gripper or a timber spacer under a conventional gripper to raise it to the correct level.

### Vinyl Type Flooring

This type of floor may be used over the Warmup® Dual Overlay Concrete boards, but it is important to remember that high temperature adhesives suitable for underfloor heating must be used.

When vinyl floor coverings are to be glued, fit the Warmup® Dual Overlay Concrete 24 hours before. The surface of the Dual Overlay Concrete boards must be levelled using a thin layer of fibre-reinforced screed to prevent the panel joints mirroring through. Allow the screed to dry before installing the vinyl finish.

### Wood Flooring

Wood floors can also be used over the Warmup Dual Overlay Concrete boards. Engineered wood floors of thicker than 10mm can be laid floating and decoupled from the Dual Overlay Concrete boards.

If the wood floor is to be glued an additional 8mm plywood layer must be applied to the Warmup Dual Overlay Concrete boards before the wood floor finish is applied. The wood floor must not exceed 10mm in thickness.

### Tiled Floors

When applying tiles to the Dual Overlay Concrete boards a fibreglass mesh must be applied to the adhesive bed. Only use flexible tile adhesive, grouts and screeds.

### Installation Instructions:

**NOTE:** Warmup Dual Overlay Concrete is suitable for installation over Econnia & Contura systems only!

## Step 1 - Install the Underfloor Heating

The underfloor heating should be installed as per the manual.

## Step 2 - Install the Decoupling Layer (PE Foil)

Once you have laid the underfloor heating and tested the system it is imperative that a PE Foil (low tog) is used. The PE Foil will act as a decoupling layer and a moisture barrier.

## Step 3 - Install Warmup® Perimeter Strip

Install the Warmup perimeter strip around the perimeter of the room.

## Step 4 - Warmup® Dual Overlay Concrete fitting instructions

You are ready to install the Warmup® Dual Overlay Concrete boards

**NOTE:** The heating system **MUST** be switched off before installation.

The Warmup® Dual Overlay Concrete boards must acclimatise in their sealed packaging, in the room where they are to be fitted, for at least 48 hours, at a temperature of at least 12°C/54°F and a humidity percentage of 45-60%. Before starting your installation it is important that you ensure your floor is permanently dry, clean and free of dust. The underfloor heating must be switched off before the boards are installed. Always lay a PE Foil of minimum 4mil/150um first, independent of the condition of the floor. Ensure the PE Foil seams overlap and then tape.

The Dual Overlay Concrete boards surface temperature is not to surpass 35° C / 95°F. In all cases, the operating temperature of the underfloor heating must be raised gradually.

## Cutting the boards

When cutting, we recommend that you use a retractable bladed knife or similar and a straight-edge. Score the boards two or three times and then snap along the cut. This avoids making sawdust which would prevent the adhesive from bonding correctly.

## Installation Overview

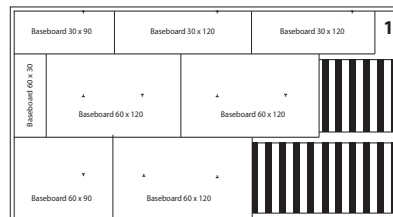
The Dual Overlay Concrete System consists of a top and bottom panel, both already coated with interactive adhesive. The bottom panel has the same dimensions as the top panel. After the protective foil has been removed, the panels are placed with the coated sides facing each other and then firmly tapped together with a rubber mallet. The adhesive layers will react together and will form a solid bond.

## Baseboard (picture 1)

For the first row, cut (score and snap) the base-boards in half lengthways, using another board as a straight edge (pic. 1). Use a utility knife with the concave blade to cut the boards.

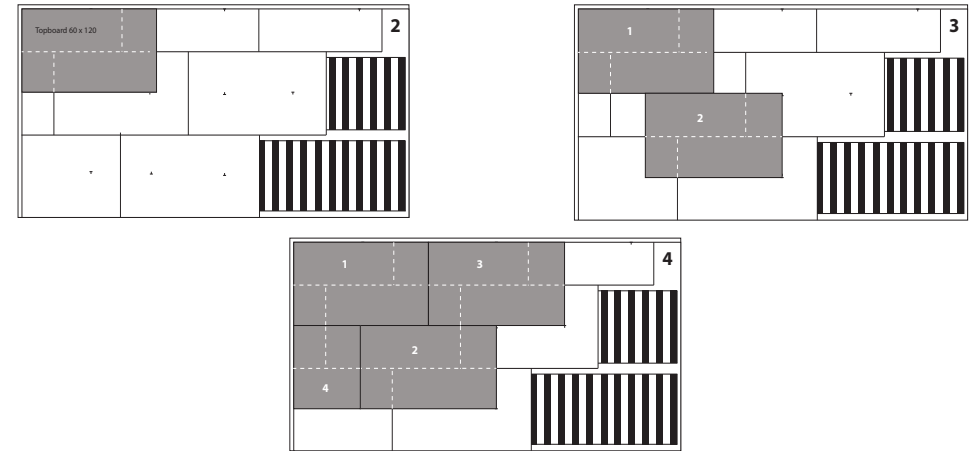
The first half base board of the first row needs to be shortened to 3/4 of its length (pic. 1). Always fit the base boards with the protection film facing up and with the cut edges facing the wall.

For the second row the first base board needs to be shortened to 1/4 of its length (pic. 1). After this, place the following full baseboards in brick-fashion (pic.1). Then the third row always starts with a base board which has been shortened to 3/4 of its length (pic. 1).



## Top boards first row.

Just before the installation of the top boards remove the protection foil from both baseboard and top board. Always start the first row with a full size top board and the next row with a half size one (pic. 2 & 4). This ensures that all the joints of the base boards will be covered perfectly, giving stability to the Dual Overlay Concrete boards. Tap the panels together using a rubber mallet. You must follow the top board sequence as indicated on the illustrations (pic. 3 & 4).



**Important:** Do not walk on the exposed layer of interactive adhesive. It is essential to leave an expansion gap of 10mm around the perimeter of the walls, pipes and other obstacles. This also applies for the actual floor covering which is to be fitted onto the boards. The floor covering must not extend beyond the boards surface at any point. Maximum allowable floor surface in length and width is 13m. Every room is to be fitted separately, leaving an expansion gap of at least 8-10mm and 16mm in door openings if the boards are continued into an adjoining area.

Now you have installed the Warmup® Dual Overlay Concrete boards the floor finish can be applied.

When a resilient or soft floor covering (vinyl, linoleum, cork) is to be fitted, the Dual Overlay Concrete boards surface needs to be levelled using a fibre-reinforced product to prevent the panel joints mirroring through.

When adhering ceramic tiles, use a 10 x 10 mm / 25/64" trowel and apply a glass fibre mesh in the tile adhesive bed. Only use flexible adhesives, grouts and levelling compounds. Check with the manufacturer of the tiles the maximum permissible tile size allowed to be installed over a floating construction.

When solid wood is to be glued, an in-between layer of 8 mm chipboard or special parquet underlay must be fixed to the boards surface. The wood floor must not exceed 10mm in thickness.

Engineered wood floors thicker than 10 mm, can be fitted floating and decoupled (PE Foil) from the boards surface.

**Note:** If the floor finish is to be glued the underfloor heating system must not be switched back on until the glue has completely set. Temperatures should then be increased gradually and temperatures should not exceed 27°C when installing under carpet, wood or vinyl.

**If you need any further assistance regarding the product all installation or operation of the heaters please contact the Warmup Technical Support help line on 0845 345 2288.**