



PROFILE OF INNOVATION



Schluter[®]-DITRA-HEAT

Electric floor warming system with integrated uncoupling technology





Bare Feet WANTED

Now you can create beautiful heated floors, with uncoupling technology for improved durability and protection against tile and grout cracking.

Ceramic and stone tiles are ideal surface coverings because they are durable, hygienic, and easy to maintain. However, two common concerns with tile are that they are prone to cracking and can be cold to the touch.

DITRA-HEAT offers complete flexibility in selecting only the areas that you want to be heated. Cables can be placed wherever heat is desired, without creating height differences in the floor. Self-leveling compounds are not required to encapsulate the cables, significantly reducing installation time.



Advantages of DITRA-HEAT

Warm floors

With DITRA-HEAT, your floors can combine the beauty of tile with the comfort of an electric floor warming system to bring a touch of luxury into any room of the home.

Crack resistance

DITRA-HEAT is the only electric floor warming system that directly incorporates uncoupling technology within the system. With the proven performance of DITRA included in DITRA-HEAT, you can feel secure that your tiled floor won't crack.

Customizable heating zones

With DITRA-HEAT, the installer has the advantage of combining loose cable with a mat that can be easily cut to the size and shape of the room. Cables can be placed wherever heat is desired to achieve customized heating zones, or placed throughout the room to heat the entire floor.

Quick and simple installation

The DITRA-HEAT membrane is designed to secure the heating cable without clips or fasteners and the installer does not need to encapsulate the cable in a leveling compound. Tile can be installed immediately after the cable, so installation is quick and simple.

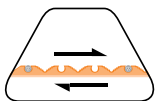
Minimum height

DITRA-HEAT minimizes assembly thickness for easy transitions to lower surface coverings, and is ideal for any room in the home.



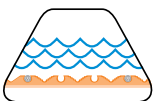
How is DITRA-HEAT Different?

A viable floor warming system must address the magnified fluctuations in temperature that contribute to increased shear stresses between the substrate and the tile covering that can lead to tile cracking. DITRA-HEAT integrates customizable, comfortable electric floor warming with four additional functions that help to prevent cracking and are essential to a long lasting floor installation.



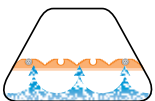
Uncoupling

DITRA-HEAT provides uncoupling through its geometric configuration, which allows for in-plane movement that effectively neutralizes the differential movement stresses between the substrate and the tile, thus eliminating the major cause of cracking and delaminating of the tiled surface.



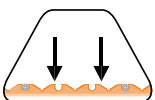
Waterproofing

DITRA-HEAT features a polypropylene composition which protects the substrate from moisture penetration. This is particularly important in bathrooms, kitchens, and any environment that may be affected by moisture.



Vapor Management

The free space on the underside of DITRA-HEAT provides a route for excess moisture and vapor to escape from the substrate that could otherwise cause damage to the tile covering above.

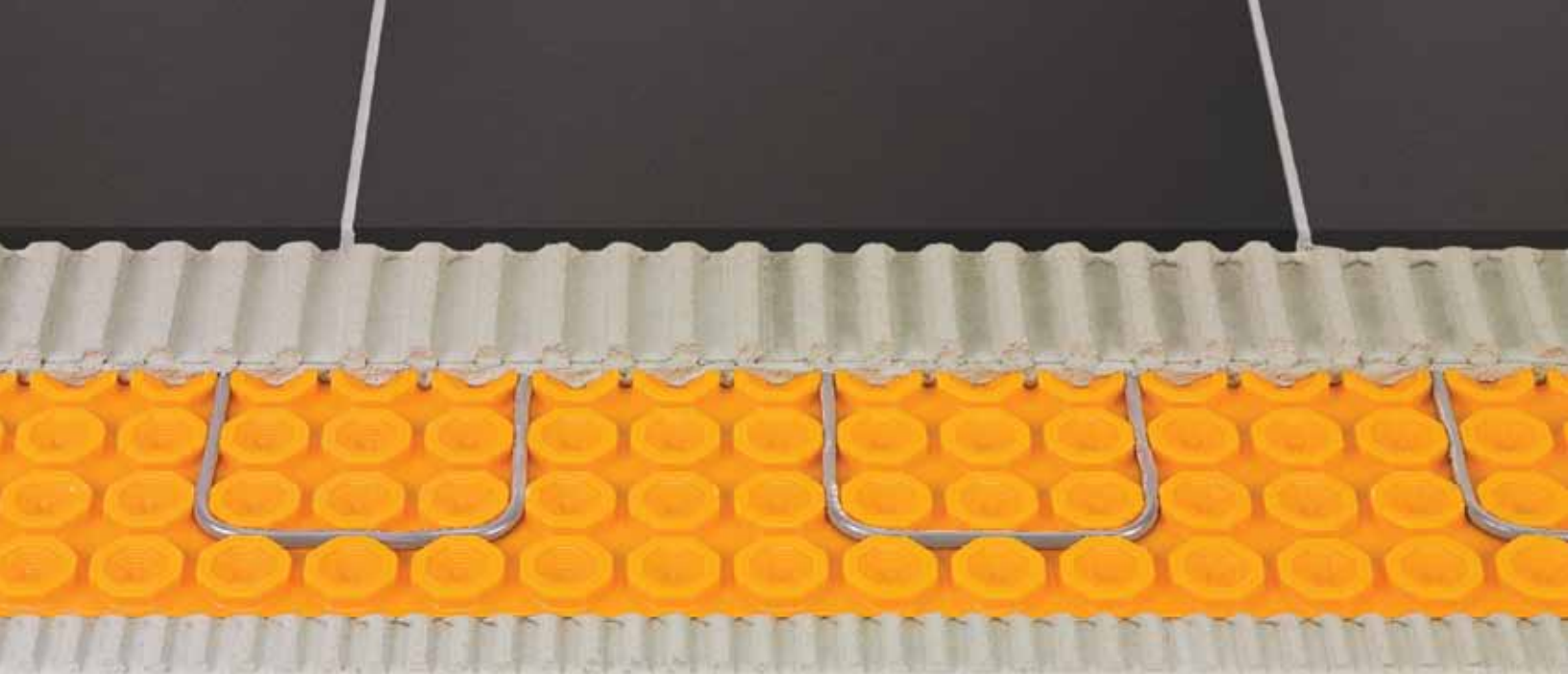


Support/Load Distribution

Loads are transferred from the tile covering through DITRA-HEAT's column-like mortar structures to the substrate. Since DITRA-HEAT is virtually incompressible within the tile assembly, the advantages of uncoupling are achieved without sacrificing point load distribution capabilities.

Product Configuration

The unique configuration of DITRA-HEAT enables the cables to be held in the matting securely, while creating a free space to provide uncoupling. This design also provides for mechanical anchoring of the thin-set mortar to the matting.



Components



DITRA-HEAT Membrane

The DITRA-HEAT membrane is available in both mat and roll formats and is designed to secure the system heating cables and serves as a universal substrate for tile coverings. Similar to DITRA, the original uncoupling membrane, DITRA-HEAT provides uncoupling to neutralize the differential movement stresses between the substrate and the tile covering to prevent cracked grout and tile, waterproofing to protect moisture-sensitive substrates, vapor management, and support.



Heating Cable

The twisted pair heating cable is available in 120 and 240 Volt formats. The cables can be installed without returning to the thermostat and produce virtually no electromagnetic fields.



Digital Thermostat

The digital thermostat controls the floor temperature and is offered in both a programmable and non-programmable format. The thermostats feature a built-in Ground Fault Circuit Interrupter (GFCI), digital display with backlit screen, and support both the 120 and 240 Volt cables. The programmable thermostat also includes 250 preset programs.

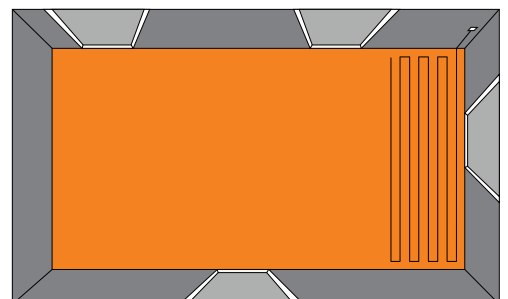
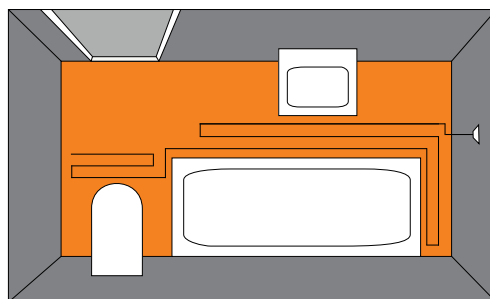
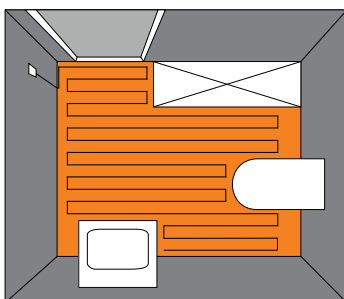


Schluter®-Systems offers practical kits for common room configurations that include all necessary system components in the right dimensions.

Installation Overview



Customizable heating zones





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