ELECTRIC UNDERFLOOR HEATING

MaxHeatUFH Electric Underfloor Heating Mat 150W/m²

Twin-core mat for tile and stone.

A 150W/m² electric heating mat for tile and stone floors. A good all-round output for kitchens, bathrooms and conservatories over a well insulated subfloor, laid in the tile adhesive bed.

CODES

MH-EM150-150 to MH-EM150-1800

PRODUCT



01 · IN THE BOX

What you get

- Heating mat with 3m cold tail

02 · YOU WILL NEED

Tools and materials

- Multimeter and 500V insulation resistance tester
- Tape measure, pencil and floor plan
- Sharp scissors or knife for the mesh
- Chisel or multi-tool for joint and sensor grooves
- Notched trowel and flexible tile adhesive

03 · SAFETY

Before you start

- Protect the circuit with a 30mA RCD and install to BS 7671. A qualified electrician must make the final connection.
- Never cut, cross or overlap the heating cable. Keep runs at least 50mm apart.
- Test the cable and insulation resistance before, during and after laying, and record every reading.

04 · INSTALLATION

Fit it in 8 steps.

1. **Make sure the subfloor is solid, clean and dust free.** Overboard timber with marine ply or tile backer board. Never lay on bitumen: cover it with backer board or 3 to 5mm of a suitable smoothing compound.
2. **Prime the floor and let it dry (usually 1 to 2 hours).** Lay any boards in a brick bond, bedded in cement-based adhesive or screwed at 300mm centres or less. On timber, fix XPS boards with 6 screws and washers per board.
3. **Test the mat and record the readings.** Draw the layout on a floor plan, marking the thermostat and fused spur, so the whole mat is used. An unrolled mat cannot be returned.
4. **Start at the thermostat end.** Roll the mat out 50 to 100mm in from the walls and press the self-adhesive mesh down. At the end of a run, cut the mesh (never the cable) and turn the mat back.
5. Around a toilet or basin the cable can be lifted off the mesh and laid loose. Keep every run at least 50mm from the next.
6. **Sit the cold tail joint and end joint in a shallow groove.** Tape the cable either side, never over the joint, and make sure both joints end up fully bedded in adhesive or levelling compound.
7. Run the floor sensor in a conduit between two heating runs, not touching the cable. If the cold tail must be shortened, unpick the braided earth (never cut along it), twist it and connect it to the supply earth.
8. **Test again, then tile in flexible adhesive.** For extra protection, cover the mat first with 5 to 6mm of latex levelling compound.

05 · TESTING AND COMMISSIONING

Test, check, then hand over

- ☑ Measure and record the cable resistance and insulation resistance out of the box, once laid, and again after tiling.
- ☑ The electrician carries out a 500V DC insulation resistance test.
- ☑ Fill in a commissioning record with a sketch of the heated area and fix it at or near the consumer unit, as BS 7671 requires.

06 · CARE AND MAINTENANCE

Keep it working

- Let the adhesive cure (usually about 7 days) before switching on, then raise the floor temperature by 1 to 2°C a day.
- Do not cover heated areas with flat-bottomed furniture, bean bags or rugs over 2.5 tog. Trapped heat can overheat the cable.

07 · RESISTANCE VALUES (150W/M²)

SIZE	POWER	CURRENT	RESISTANCE
1.0m²	150W	0.65A	352.67Ω
1.5m²	225W	0.98A	235.11Ω
2.0m²	300W	1.30A	176.33Ω
2.5m²	375W	1.63A	141.07Ω
3.0m²	450W	1.96A	117.56Ω
4.0m²	600W	2.61A	88.17Ω
5.0m²	750W	3.26A	70.53Ω
6.0m²	900W	3.91A	58.78Ω
7.0m²	1050W	4.57A	50.38Ω
8.0m²	1200W	5.22A	44.08Ω
9.0m²	1350W	5.87A	39.19Ω
10.0m²	1500W	6.52A	35.27Ω

Nominal values at 230V. Compare your test readings with these. Values for the 12.0m² mat to be confirmed.

08 · ALSO NEEDED

Order with it

- A floor-sensing thermostat: Heatmiser neoStat-e or Heatmiser Slimline-E
- Cement Coated XPS Tile Backer Board to cut heat loss downward, or 6mm Cementitious Tile Backer Board as a tiling base, plus Ultra Prime It Multi-Surface Primer

SCAN ME

Watch how it works and fits

Point your phone camera at the code to watch the video.

QUESTIONS ON SITE?

sales@maxheatufh.com **07539 499069**

WEB
maxheatufh.com

DELIVERY
Order by 12pm for next working day delivery