

COMFORT STARTS FROM THE FLOOR

SMARTHEAT HEATING MATS



Bring everyday comfort to the spaces you live in. SmartHeat electric heating mats sit beneath your floor finish, keeping the heating system out of sight.

S-MAT 150 / SH-MAT 200



Even,
Comfortable Heat



Discreet,
Underfloor Solution



Reliable
& Safe



Energy Efficient
Comfort

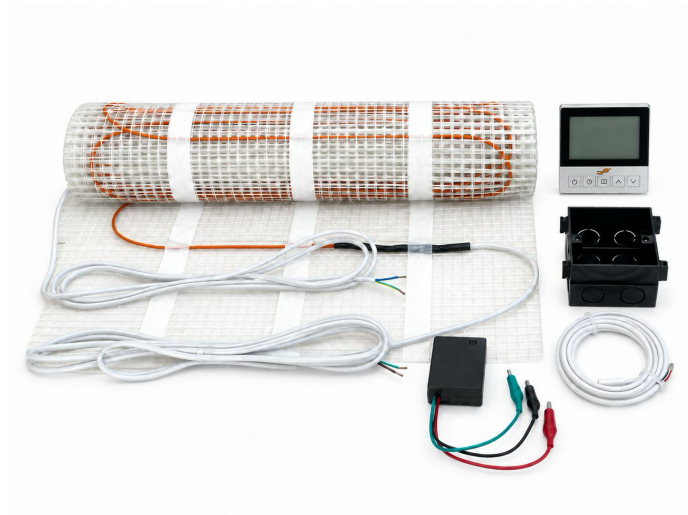
ELECTRIC UNDERFLOOR HEATING

Heating mats. Built-in comfort.

A system beneath the surface

SmartHeat electric mats combine a heating cable with a mesh carrier. Select the mat output and heated area to suit the floor design, then confirm the controls and accessories.

S-Mat 150 features a slim, single-conductor cable. SH-Mat 200 features a twin-conductor design, specified by SmartHeat as emitting zero EMF.



KIT WITH WI-FI THERMOSTAT

Heating mat · Wi-Fi thermostat
Floor sensor · Screamer warning device
Wall mounting box

Kit contents apply to the selected package. Mat-only products are supplied separately.

TECHNICAL DATA

PRODUCT RANGE	S-MAT 150	SH-MAT 200
Output density	150 W/m ²	200 W/m ²
Cable diameter	2.5 mm	5 mm
Cable construction	Single conductor	Twin conductor
Mat carrier	Adhesive-backed mesh	Adhesive-backed mesh
Connection	Two point	Single point

W/m² describes output density, not an efficiency rating. Running energy depends on operating time, insulation, floor construction and temperature settings.

SELECT THE HEATED AREA

S-MAT 150 / ORDERING GUIDE

150 W/m² heating mat with 2.5 mm cable diameter. Mat references below show total output (W) followed by heated area (m²).

AREA m ²	MAT REFERENCE	MAT SIZE m × m	OUTPUT W	CURRENT A	RESISTANCE Ω
1.0	SHMAT 150-1.0	0.5 × 2	150	0.65	353.8
1.5	SHMAT 225-1.5	0.5 × 3	225	0.98	235.7
2.0	SHMAT 300-2.0	0.5 × 4	300	1.3	176.9
2.5	SHMAT 375-2.5	0.5 × 5	375	1.63	141.5
3.0	SHMAT 450-3.0	0.5 × 6	450	1.96	118
3.5	SHMAT 525-3.5	0.5 × 7	525	2.28	102
4.0	SHMAT 600-4.0	0.5 × 8	600	2.61	88.1
5.0	SHMAT 750-5.0	0.5 × 10	750	3.26	70.6
6.0	SHMAT 900-6.0	0.5 × 12	900	3.91	58.8
7.0	SHMAT 1050-7.0	0.5 × 14	1050	4.57	50.3
8.0	SHMAT 1200-8.0	0.5 × 16	1200	5.22	44.1
9.0	SHMAT 1350-9.0	0.5 × 18	1350	5.87	39.2
10.0	SHMAT 1500-10.0	0.5 × 20	1500	6.52	35.3
12.0	SHMAT 1800-12.0	0.5 × 24	1800	7.83	29.4

SHMAT = mat only. SHMATK = kit. Example: SHMAT 150-1.0 → SHMATK 150-1.0.



PRODUCT WARRANTY

20-year limited manufacturing-defect warranty for the mat; 1 year for the thermostat. Refer to the applicable warranty terms and installation requirements.

SELECT THE HEATED AREA

SH-MAT 200 / ORDERING GUIDE

200 W/m² heating mat with 5 mm cable diameter. Mat references below show total output (W) followed by heated area (m²).

AREA m ²	MAT REFERENCE	MAT SIZE m × m	OUTPUT W	CURRENT A	RESISTANCE Ω
1.0	SHMAT 200-1.0	0.5 × 2	200	0.87	264.5
1.5	SHMAT 300-1.5	0.5 × 3	300	1.3	176.3
2.0	SHMAT 400-2.0	0.5 × 4	400	1.74	132.2
2.5	SHMAT 500-2.5	0.5 × 5	500	2.17	105.8
3.0	SHMAT 600-3.0	0.5 × 6	600	2.61	88.2
3.5	SHMAT 700-3.5	0.5 × 7	700	3.04	75.6
4.0	SHMAT 800-4.0	0.5 × 8	800	3.48	66.1
4.5	SHMAT 900-4.5	0.5 × 9	900	3.91	58.8
5.0	SHMAT 1000-5.0	0.5 × 10	1000	4.35	52.9
6.0	SHMAT 1200-6.0	0.5 × 12	1200	5.22	44.1
7.0	SHMAT 1400-7.0	0.5 × 14	1400	6.09	37.7
8.0	SHMAT 1600-8.0	0.5 × 16	1600	6.96	33.1
9.0	SHMAT 1800-9.0	0.5 × 18	1800	7.83	29.4
10.0	SHMAT 2000-10.0	0.5 × 20	2000	8.7	26.5
12.0	SHMAT 2400-12.0	0.5 × 24	2400	10.43	22.1

SHMAT = mat only. SHMATK = kit. Example: SHMAT 200-1.0 → SHMATK 200-1.0.



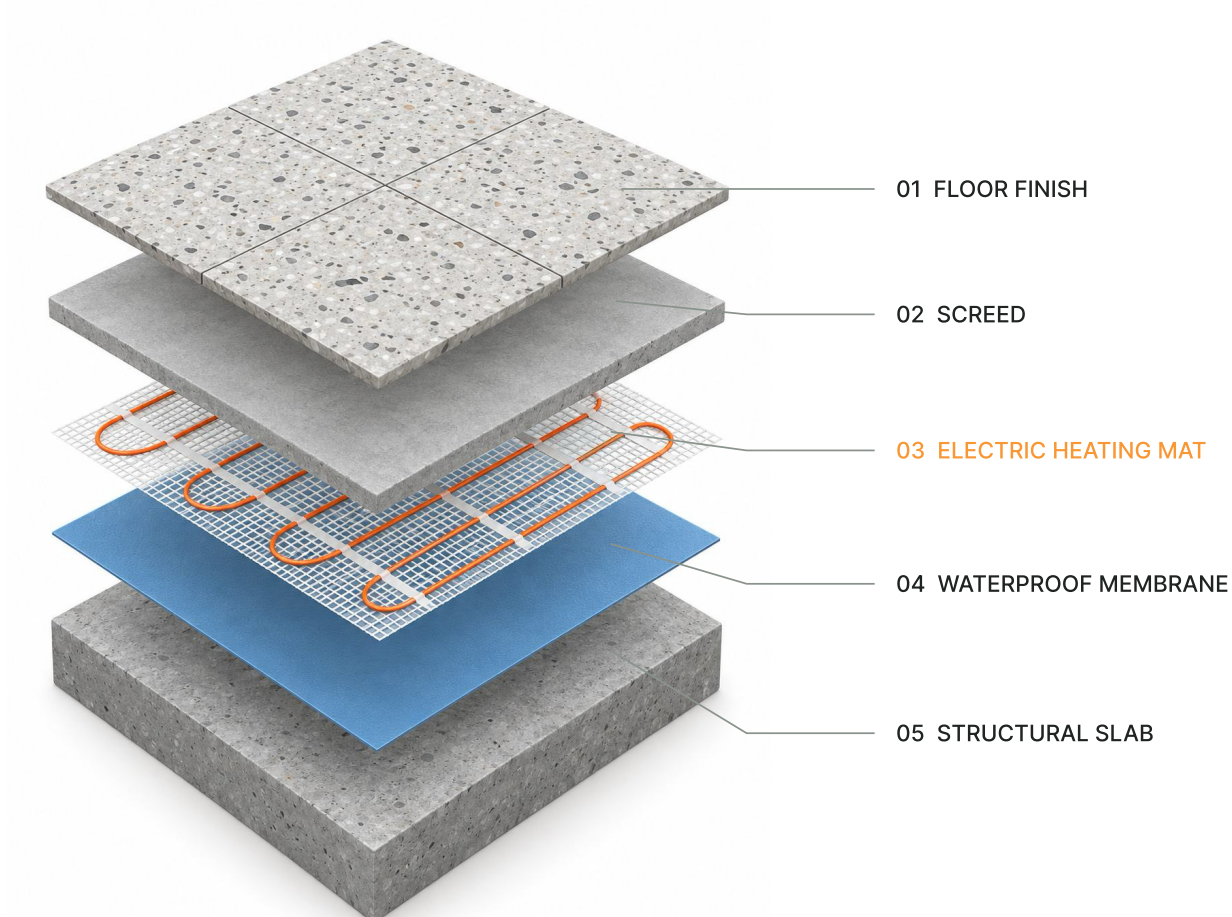
SUPPLY & PRODUCT DETAILS

Mat-only product. Twin-conductor cable on adhesive-backed mesh; single-point connection. Confirm the thermostat, sensor and accessories with your selected package.

FLOOR CONSTRUCTION / PLANNING

Plan the complete floor.

The heating mat is one part of the floor assembly. Coordinate the selected mat, floor finish, embedding layer, controls and any waterproofing or acoustic requirements.



Exploded concept, not to scale. The mat is shown separately for clarity and is embedded in the specified layer. Waterproofing position and final build-up must follow the project design.

BUILD-UP & FLOOR HEIGHT

Cable diameter is not the finished floor height. Allow for the specified adhesive or screed, floor finish and connection details.

Where waterproofing or acoustic underlay is required, confirm the complete layer sequence against the project design.

BEFORE YOU ORDER

Confirm the heated area and mat range.
Check floor-finish compatibility.
Select the thermostat and floor sensor.
Confirm the supplied kit accessories.
Follow the product installation instructions and arrange the electrical connection with a licensed electrician.

INSTALLATION METHODS

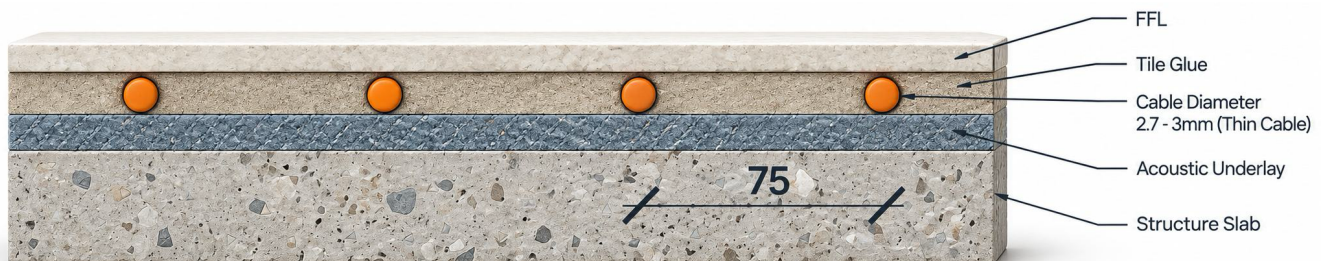
In-screed & under-tile heating

Two ways to position electric floor heating: within a screed layer or within tile adhesive directly beneath the floor finish.

Electric Underfloor Heating - In Screed



Electric Underfloor Heating - Under Tile



Understanding the two arrangements

In the in-screed detail, the standard 5–5.5 mm cable is embedded in a 25–35 mm screed layer. In the under-tile detail, the thinner 2.7–3 mm cable sits within the tile adhesive beneath the floor finish. Both drawings show 75 mm cable spacing. These examples also include acoustic underlay below the heating layer.