Underfloor Heating Thermal Screed

Screedflo Underfloor Heating Thermal screed is specifically designed for use with underfloor heating systems.
This screed is designed to conduct the heat from the UFH pipes more efficiently than other screeds, which is ideal for renewable energy sources, which generally run at a lower flow temperature than conventional heating sources.

It may be used with conventional heat sources as well as with renewable technologies. It is not pipe specific and is suitable for use with any underfloor heating system and in any type of construction, subject to suitable engineering. It can be laid on timber floors, Lewis decking, and more traditional concrete and masonry systems.

Suitable for both new build and refurbishment projects, Thermal Screed offers an environmentally friendly screed to help improve the sustainability criteria of your project. Our Thermal screed can be used to thinner depths than conventional screeds, requiring just 20mm minimum cover to pipes, subject to substrate suitability.

It is suitable for use with all types of floor covering and offers the ultimate in underfloor heating efficiency and comfort.

Screedflo Underfloor Heating Thermal Screed
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UNDERFLOOR HEATING THERMAL SCREED has a high thermal conductivity.
Independent tests achieved 2.5W/mK [1]
For UK calculations use 2.3W/mK [2]

Reduced depth
Minimum 20mm cover required to underfloor heating conduits. (Some cosmetic pipe mapping may be observed.)

Better heating performance
Complete pipe encapsulation allows easy heat transfer
Suitable for any heating system and pipe size
Low flow temperatures
Reduced energy consumption and CO2 emissions

Reduced heating cost
Low thermal inertia and rapid response
Heats up quickly and cools quickly allowing greater system control
Improved comfort level and reduced thermal “overshoot”
[1] Tested to ASTM 1530 by Warwick University using normative sample.
[2] Allows for testing tolerances

Application data:
Underfloor Heating - Minimum cover to pipes 20mm

Physical data
Anhydrite binder mixed with selected sharp sand and water.

Appearance: off white fluid mortar
PH: 10 – 12
Wet Density: 2,200kg/m3
Dry Density: 2,000kg/m3
Required flow: 230mm to 270mm
Non-combustible building material Class A1 BS EN13501.
Thermal expansion coefficient 0.012mm/mK.
Minimum requirement C25-F4
Nominal C35-F6
Setting Time: Initial Set > 300 minutes
BRE Impact Test: Category A less than 3mm.

Performance data
Foot traffic in 48 hours
Loading 5 to 7 days
Drying times are dependent on depth of screed, ambient conditions and suitability of building envelope.
1mm per day up to 40mm depth. At 20 degrees C and 60% RH
Force drying: Can be force dried after 7 days.
SR2 tolerance finish can be readily achieved as described in BS8204.

Environmental data

Recycled Content	Binder 98%
	Mortar up to 40%
Carbon Emissions	Binder 10-30kgs/tonne
	Mortar 30-50kg/m3

Environmentally friendly and protein free.

Screed 36% recycled content, 100% recyclable

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