



screedflo



SCREEDFLO HTC SCREED

Screedflo High Thermal Conductivity (HTC) screed is specifically designed for use with underfloor heating systems. 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 is suitable for use over timber floors, Lewis decking, and more traditional concrete and masonry systems.

Suitable for both new build and refurbishment projects, Screeflo HTC offers an environmentally friendly screed to help improve the sustainability criteria of your project. Screeflo HTC can be used to thinner depths than conventional screeds, requiring just 20mm minimum cover to pipes, subject to substrate suitability. Screeflo HTC is suitable for use with all types of floor covering, and offers the ultimate in underfloor heating efficiency and comfort.

WHAT'S SPECIAL ABOUT SCREEDFLO HTC?

In addition to all of the usual benefits available with Screeflo screeds, Screeflo HTC is designed specifically for use with underfloor heating/cooling systems and is suitable for both warm water and electric underfloor heating.

Screedflo HTC has a higher 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.)

High Strength

Minimum C30-F5

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.

Characteristic strength C30-F5

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

Components of this product may be hazardous during application and mixing. Please consult the Screeflo Health & Safety Data Sheets which can be obtained from our Head Office on 01621 874781.

For all enquiries please contact us:

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