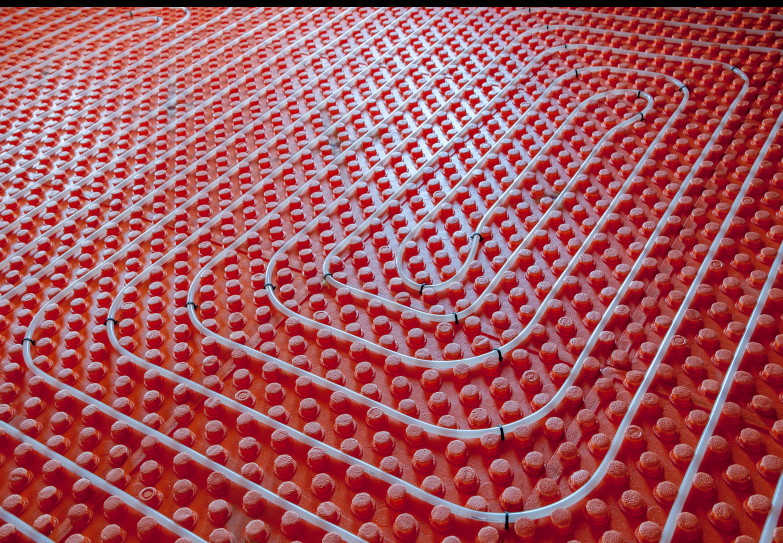




FlowTech

UNDERFLOOR HEATING & SCREED



INFO@FLOWTECHUK.CO.UK

WWW.FLOWTECHUK.CO.UK

PRODUCT INFORMATION & SPECIFICATIONS



UNDERFLOOR HEATING & SCREED

FlowTech are an underfloor heating & liquid floor screed specialist. We install environmentally friendly, quick drying liquid screed and underfloor heating systems across the UK.

PREPARE

Floor preparation



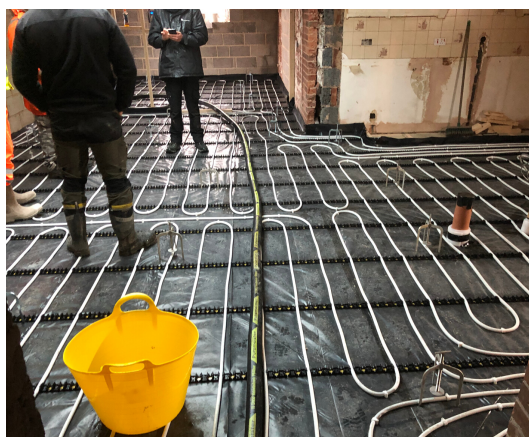
PIPE

Underfloor heating



POUR

Liquid flow screed



FLOW SCREEDS

Whatever your requirements we have the right mix for the job. We are Gyvlon & Cemfloor accredited, we provide both cement based and non-cement based screeds.



CEMENT BASED

screed offers reduced drying times, meaning floor coverings can be applied faster than other screeds. It dries fast, no sanding needed prior to floor finishes and can receive foot traffic in as little as 24 hours after placing.



ANHYDRITE

designed to provide a smooth level surface in both commercial and domestic buildings prior to application of floor finishes. It can be used bonded, unbonded or floating and with or without underfloor heating.





PRODUCT INFORMATION

We predominantly supply 2 types of Gyvlon screeds



Perfect for UFH

- ▶ Designed to improve the thermal performance of the underfloor heating systems allowing your system to run at lower input temperatures - therefore saving you money.
- ▶ It is the ONLY screed to guarantee a minimum thermal performance approved by the BBA, allowing UFH designers to maximise the performance of your system.



All purpose screed

- ▶ Designed to provide a smooth level surface in both commercial and domestic buildings prior to the application of floor finishes.
- ▶ Can be used Bonded, Unbonded or Floating with or without UFH and is BBA approved.
- ▶ This screed can be laid thinner, with bigger bay sizes, no reinforcement, no curing membrane offering greatly reduced cracking and faster installation compared to traditional sand cement screeds.



UNDERFLOOR HEATING & SCREED



SPECIFICATIONS

The technical specifications for each are



TECHNICAL CHARACTERISTICS			
Mechanical strength		C30 F8	
Thermal conductivity (nominal value) ²		$\lambda=2,5\text{W/m.K}$	
Thermal emission coefficient ³		$K_H \geq 7,42\text{W/m}^2.\text{K}$	
Diffusivity		$D=1,0.10^{-6} \text{ m}^2/\text{s}$	
Wet Density		2 200kg/m ³	
Dry Density		2 000kg/m ³	
Nominal thickness above the pipe		20mm	
Minimum thickness by substrate	Unbonded		30mm
	Floating	Residential	35mm
		Commercial	40mm

INSTALLATION BENEFITS	
Flow	250mm ($\pm 20\text{mm}$)
Joints	300m ²
Productivity	up to 200m ² / hour or 1 500m ² / day





SPECIFICATIONS

The technical specifications for each are



TECHNICAL CHARACTERISTICS	
Mechanical strength	C25 – F4 BSEN 13813
Dry density	2 000kg/m ³ (± 200)
Design thickness	Min 30mm - unbonded
Design thickness	Min 35mm (domestic) 40mm (commercial) - floating
Substrate type	Suitable for most substrates
Substrate regularity	SR2 – BSEN 8204-7
Surface finish	Low laitance option
Surface finish	May require sanding as part of floor finish installation
Reinforcement	Requires no reinforcement

INSTALLATION BENEFITS	
Flow	270mm (± 10mm)
Working Time	180mins from commencement of batching to finish dapping
Joints	1000m ² (Area layout to be considered)
Productivity	Up to 200m ² / hour or 2 000m ² / day



PRODUCT INFORMATION

All purpose screed

Thinner sections compared to traditional screeds.

Minimal Drying Shrinkage and no sanding required

Foot traffic after 24-48 hours

Exceptional Thermal Conductivity

Can be applied in wet areas.

Reduced drying times
Depending on drying condition

Self-compacting – no voids around under floor heating pipes

No risk of contamination at concrete mixing plants.

No Surface Dust after curing

Easy Installation (Reduces time & costs)



UNDERFLOOR HEATING & SCREED



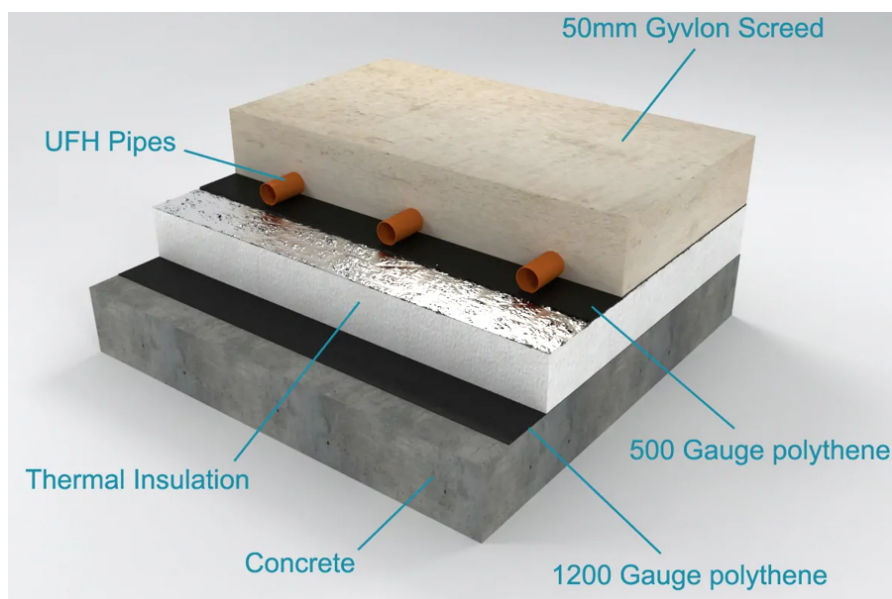
SPECIFICATIONS

Screed Specification	EN 13813:2002
Compressive Strength	C20, C25, C30
Flexural Strength	F4, F5, F6
Minimum Thickness	Bonded: 25mm Unbonded: 30mm Floating: Domestic: 35mm Commercial: 40mm Over underfloor heating pipes: 25mm above pipe
Shrinkage (28 Days)	<0.05%
Flow Rate	230–260mm
Fresh Density	2100–2200 kg/m ³
*Thermal Conductivity	Up to 2.9W/mK
BRE Impact Test	Category A
Open to Light Foot Traffic	24-48 Hours
Maximum Bay Sizes	Non-Heated Floors =150m ² Heated Floors =100m ²

UNDERFLOOR HEATING

THE FLOW STANDARD

The FlowStandard underfloor heating system is our most popular floor and underfloor heating system. The FlowStandard is a warm water system which carries the heated water through the pipes across the floor while encased within screed.



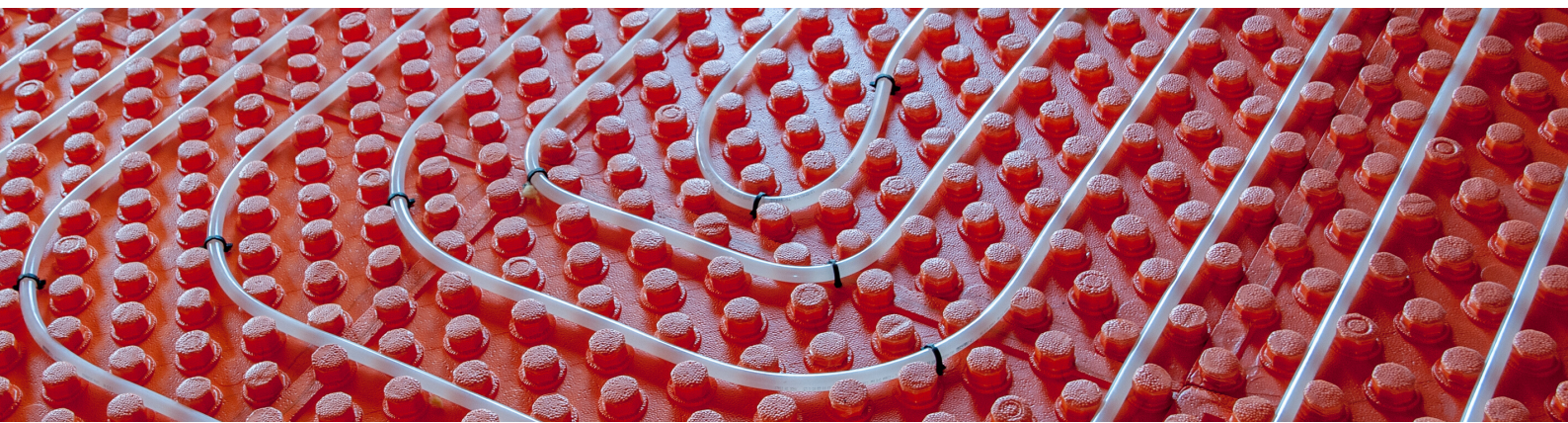
CHOOSE FLOW AS THE STANDARD

- Great choice for new screed floors.
- High output underfloor heating system with lowest running costs
- Perfect match for traditional liquid screed
- Quick installation

UNDERFLOOR HEATING

APPLICATION

The FlowTech FlowStandard system is designed for use on most projects for but is ideally suited where a solid floor is required. These systems are perfectly matched to a liquid screed installation which is quicker and improves the thermal output. A major benefit of the FlowStandard system is its compatibility with low temperature heat sources, such as ground or air source heat pumps. With the FlowStandard system pipe spacing can be reduced or increased depending on the heat loss of the building. These systems are perfect for basements and ground floor requirements.



INSULATION

The correct insulation is imperative. Placed directly beneath the screed this will prevent the heat from being lost downwards.

INSTALLATION

The FlowStandard system is installed to be energy efficient by our team of skilled engineers. Every element is precisely laid to ensure minimum heat loss from the system creating an evenly distributed warmth throughout the room.



ARRANGE YOUR APPOINTMENT

07595 968229

info@flowtechuk.co.uk

www.flowtechuk.co.uk



