

The guaranteed ultra-efficient screed for underfloor heating



Inside the FM Screed Solutions Range, THERMIO®+ technology has been developed to further improve underfloor heating systems by creating a screed that is specifically designed to complement all underfloor heating & cooling systems.



WHAT DOES FM SCREED THERMIO OFFER?

THERMIO®+ technology coupled with an underfloor heating or cooling system **guarantees** pipe encapsulation and an **emitter** which will give:



performance

up to 30% increase of the thermal emission value for maximised performance of the underfloor heating system



comfort

up to 80% of thermal diffusivity for a much faster ramp-up in temperature, greatly improving immediate and long term comfort



savings

up to 8% savings on the heating bills

ALL THE NORMAL BENEFITS OF FLOWMIX PRODUCTS

FM Screed Thermio has **all the benefits** that you have come to expect from Flowmix screed:

- **Very high fluidity for fast installation**
- **Minimum SR2 surface finish**
- **Greatly reduced cracking and no curling**
- **Maximum bay size 300m²**
- **No reinforcement**
- **No need for a curing membrane**
- **Typically 36% recycled content**

MAIN FEATURES

High and guaranteed thermal performance

both in heating and cooling modes

Low inertia

(Nominal thickness at 20mm only above pipes)

Red colouration

to ensure correct product selection



FM SCREED THERMIO HAS GUARANTEED THERMAL PERFORMANCE

Flowmix Screed Thermio is an accumulation of benefits for your water underfloor heating systems:

Flowmix Screed Thermio enables a **much faster rise in temperature** thanks to its high thermal diffusivity (up to +80% compare to a cement screed), providing quicker response to thermostat changes.

Greatly improved comfort, the floor emits the heat in a more efficient and homogeneous way thanks to the exceptional thermal emission value of Flowmix Screed Thermio (up to +30%). **Maximising your underfloor heating performance.**

The high efficiency of Flowmix Screed Thermio allows your boiler or heat pump to work with a better efficiency, and to make **considerable savings on your heating bill** (up to 8% saving).

	TRADITIONAL CEMENT	ECO TECHNOLOGY	FM SCREED THERMIO
	<p>LOW CONDUCTIVITY STANDARD THICKNESS</p>	<p>GOOD CONDUCTIVITY REDUCED THICKNESS</p>	<p>HIGH CONDUCTIVITY GUARANTEED THIN SCREED SOLUTION</p>
COMFORT	★	★★★	★★★★★
EFFICIENCY	★	★★★	★★★★★

Tested extensively in Europe with manufacturers such as: Acome, Comap, Efex, PBtub, Rehau, Roth, Uponor, Velta, Wavin

OUTSTANDING PERFORMANCE

TECHNICAL CHARACTERISTICS

Mechanical strength	C30 F8		
Thermal conductivity (nominal value)	$\lambda=2,5 \text{ W/m.K}$		
Thermal emission coefficient	$KH \geq 7,42 \text{ W/m}^2.\text{K}$		
Diffusivity	$D=1,0.10-6 \text{ m}^2/\text{s}$		
Wet density	2200kg/m ³		
Dry density	2000kg/m ³		
Nominal thickness above the pipe	20mm		
Minimum thickness by substrate	Unbonded	30mm	
	Floating	Residential	35mm
		Commercial	40mm

INSTALLATION BENEFITS

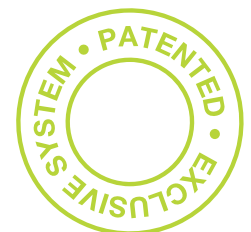
Flow	250 (± 20mm)
Joints	300m ²
Productivity	up to 200m ² /hour or 1500m ² /day

THERMIO®+ is a technology patented by ANHYDRITEC®

Thermal diffusivity (D): ability of a material to transmit more or less quickly a temperature change

Thermal emission value (K_H): capacity of a water heating system to give back heat circulating through pipes

Thermal conductivity (λ): property of a material to conduct heat. Higher conductivity equals quicker reaction



Our anhydrite binder is composed of **98% recycled materials**