



THE GUARANTEED ULTRA-EFFICIENT SCREED FOR UNDERFLOOR HEATING

Gyvlon® 'Environmental Screed Solutions' have developed the THERMIO®+ technology to further improve underfloor heating systems by creating a screed that is specifically designed to complement both water underfloor heating & cooling systems.

Gyvlon THERMIO®+ is the only screed with a guaranteed thermal performance.

WHAT DOES THERMIO®+ OFFER?

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

- **+ performance:** up to **30**% increase of the thermal value coefficient for maximised performance of the underfloor heating system.
- **+ comfort:** up to **80**% thermal diffusivity for a much faster ramp-up in temperature, greatly improving immediate and long term comfort.
- + savings: up to 8% savings on heating bills

ALL THE NORMAL BENEFITS OF GYVLON® PRODUCTS

THERMIO®+ has **all the benefits** that you have come to expect from Gyvlon screeds:

- 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

OUR TECHNICAL +

- → High and guaranteed thermal performance both in heating or cooling modes
- ➤ Low inertia (Nominal thickness at 20mm only above pipes)
- ➤ **Red colouration** the guarantee of the right product



GYVLON THERMIO®+ IS THE ONLY SCREED WITH A GUARANTEED THERMAL PERFORMANCE.

GYVLON® RANGE















THE GUARANTEED ULTRA-EFFICIENT SCREED FOR UNDERFLOOR HEATING





THERMIO®+, is an accumulation of benefits for your water underfloor heating systems:

THERMIO®+ screed 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 THERMIO®+ (up to +30%¹). **Maximising your underfloor heating performance.**



The high efficiency of 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%¹ saving).

Traditional cement	ECO° TECHNOLOGY	THERMIO"+
INSULATION	INSULATION	INSULATION
LOW CONDUCTIVITY NOMINAL THICKNESS	GOOD CONDUCTIVITY REDUCED THICKNESS	HIGH CONDUCTIVITY GUARANTEED THIN SCREED SOLUTION
*	***	****
*	***	****
-	-	· CSTB·
	LOW CONDUCTIVITY NOMINAL THICKNESS	LOW CONDUCTIVITY NOMINAL THICKNESS

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) ²		λ=2,5W/m.K		
Thermal emission coefficient ³		K _H ≥7 ,42W/m ² .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 Understance Floating	nbonded	30mm		
	Floating	Residential	35mm	
		Commercial	40mm	

- 1. Independant study by Cardonnel
- 2. According Avis Technique / DTA CSTB N° 13/12-1184, with a minimum of 2.3W/m.K guaranted for thermal calculations in whole UK
- 3. Calculation according to EN1264. Minimum value stated at the present document edition

INSTALLATION BENEFITS		
Flow	250mm (± 20mm)	
Joints	300m ²	
Productivity	up to 200m² / hour or 1 500m² / day	

THERMIO® + is a technology patented by Gyvlon®

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

 $\begin{tabular}{ll} \textbf{Thermal emission value (K}_{\tt H})$: capacity of a water heating system to give back heat circulating through pipes \end{tabular}$

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



www.gyvlon.co.uk



The information in this document does not dispense with the realisation of a thermal study.

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