





THE GUARANTEED **ULTRA-EFFICIENT SCREED** FOR UNDERFLOOR HEATING

Inside the Gyvlon[®] Screed 'Environmental Screed Solutions' range THERMIO[®]+ technology has been developped to further improve underfloor heating systems by creating a screed that is specifically designed to complement all underfloor heating & cooling systems.

Gyvlon[®] Screed 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 pipe encapsulation and an emitter which will give:

+ performance: up to 30%³ increase of the thermal emission value 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%¹ savings on heating bills

ALL THE NORMAL BENEFITS OF GYVLON® SCREED PRODUCTS

THERMIO[®] + has **all the benefits** that you have come to expect from Gyvlon[®] 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 or cooling modes
- Low inertia (Nominal thickness at **20mm** only above pipes)
- Red colouration to ensure correct product selection

LOW CARBON SOLUTION **EPD**[®] <90% REDUCTION



The ultra-thin readymix flowing

FINIO[®]

subbase leveller

The thin and lightweight flowing screed solution

THERMIO°MAX

ECO

CTECH

The guaranteed ultraefficient screed for underfloor heating

XTR° ED E2G ">>>

ECO EDEZG

The strongest screed for the most demanding situations

The Gyvlon[®] screed version with faster drying (FD) and early to cover (E2C[®])





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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%³). **Maximising your underfloor heating performance.**



COI

THE

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	TECHNOLOGY	
	INSULATION	INSULATION	INSULATION
	LOW CONDUCTIVITY STANDARD THICKNESS	GOOD CONDUCTIVITY REDUCED THICKNESS	HIGH CONDUCTIVITY GUARANTEED THIN SCREED SOLUTION
OMFORT	*	$\star \star \star$	$\star \star \star \star \star$
FICIENCY	*	***	$\star \star \star \star \star$
IERMAL GUARANTEE	-	-	

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

OUTSTANDING PERFORMANCE

TECHNICAL CHARACTERISTICS				
Mechanical st	C30 F8			
Thermal conductivity (nominal value) ²			λ=2,5W/m.K	
Thermal emission coefficient ³			K _H ≥7 ,42W/m².K	
Diffusivity			D=1,0.10 ⁻⁶ m ² /s	
Wet Density	2 200kg/m ³			
Dry Density	2 000kg/m ³			
Nominal thickness above the pipe			20mm	
Minimum	Unbonded		30mm	
thickness	Floating	Residential	35mm	
by substrate		Commercial	40mm	

1. Evaluation made by independent thermal engineering company (Cardonnel)

2. According to BBA, with a minimum of 2.3 W/m.k guaranteed thermal performance for approved concrete plants across the UK

3. Calculation according to EN1264. Minimum value stated at the present document edition

INSTALLATION BENEFITS			
Flow	250mm (± 10mm)		
Joints	300m ²		
Productivity	up to 200m² / hour or 1 500m² / 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_{μ}): 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







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