THERMIO®+ TECHNOLOGY

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

THERMIO®+ TECHNOLOGY
XTR® TECHNOLOGY
STEELDECK® TECHNOLOGY
SKY® TECHNOLOGY
SOUNDBAR® TECHNOLOGY
ECO® TECHNOLOGY

GYVLON
environmental screed solutions

THE GUARANTEED ULTRA-EFFICIENT SCREED FOR UNDERFLOOR HEATING

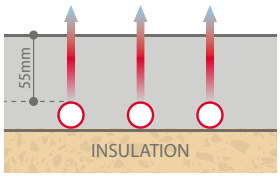
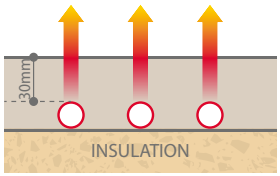
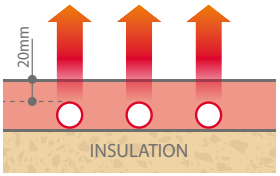
THERMIO®+ TECHNOLOGY

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®+ TECHNOLOGY
			
	LOW CONDUCTIVITY NOMINAL THICKNESS	GOOD CONDUCTIVITY REDUCED THICKNESS	**HIGH CONDUCTIVITY GUARANTEED THIN SCREED SOLUTION**
COMFORT	★	★★★	★★★★★
EFFICIENCY	★	★★★	★★★★★
THERMAL GUARANTY	-	-	CSTB

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/m².K**
Diffusivity			D=1,0.10^{-6} m²/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

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	300m²
Productivity	up to 200m² / hour or 1 500m² / day

THERMIO®+ is a technology patented by Gyvlon®

EXCLUSIVE SYSTEM · PATENTED · EXCLUSIVE SYSTEM

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

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

www.gyvlon.co.uk

GYVLON environmental screed solutions

Gyvlon® - Unit 221, Europa Boulevard, Westbrook, Warrington, WA5 7TN - T. 01925 428 780 - F. 01925 428 788 - sales@gyvlon.co.uk