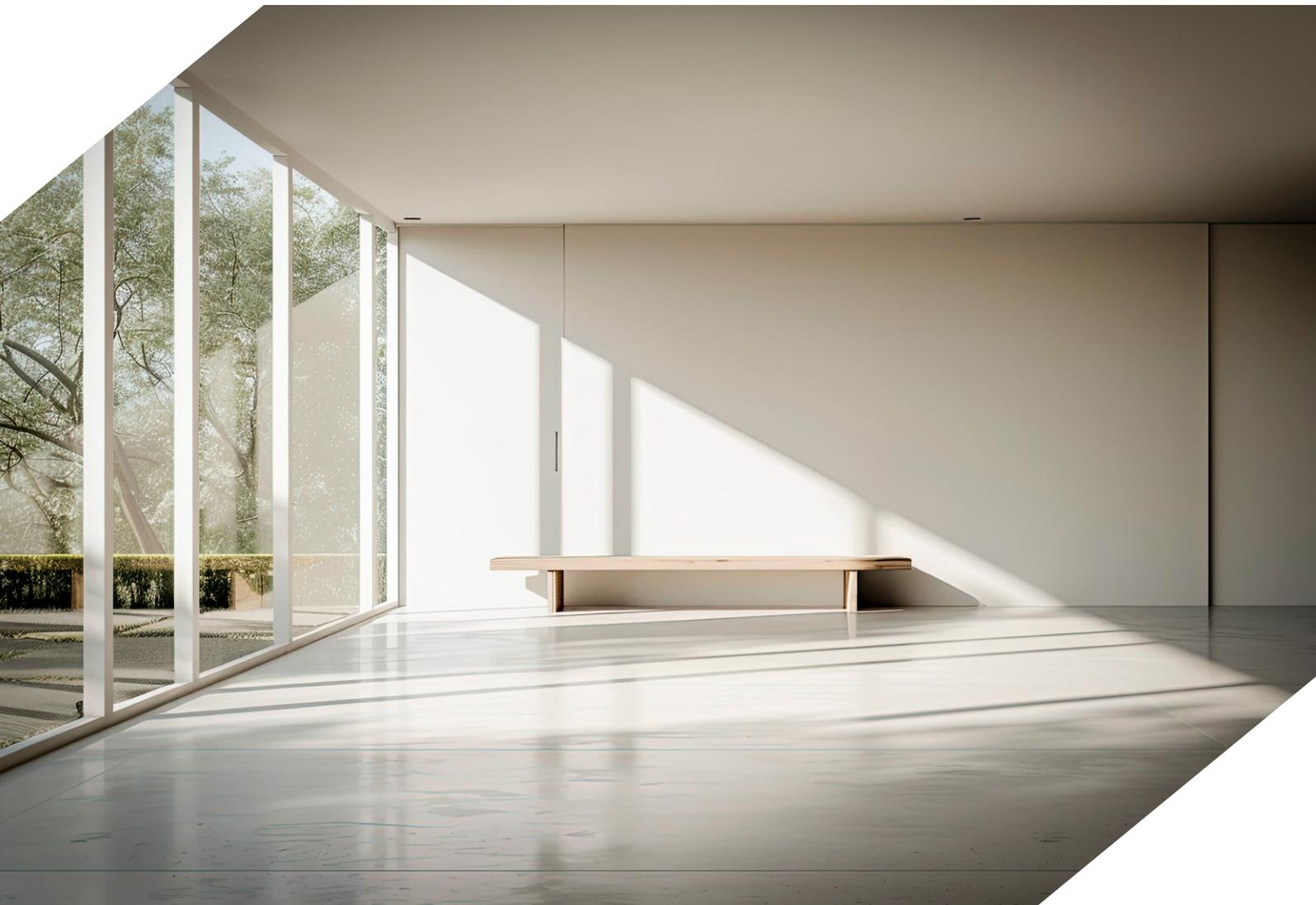


# INTERTHERM

Underfloor Heating Filling Concrete



## Thermal Comfort & Structural Durability

The Optimal Base for Modern Underfloor Heating



**INTERBETON**  
A TITAN GROUP COMPANY

## Thermal Performance with Structural Stability

INTERBETON, with a steadfast commitment to sustainability and technological excellence, offers INTERTHERM to the Greek market—a premium solution for underfloor heating systems. INTERTHERM is a high-performance, ready-mixed screed produced in INTERBETON's fully automated batching plants. It is specially designed to act as the intermediate layer between heating pipes and the final floor finish. Thanks to its high thermal conductivity, structural stability, and long-term performance, INTERTHERM delivers comfort, durability, and energy efficiency in every project.

## Energy Efficiency & Long-Term Reliability

INTERTHERM incorporates INTERBETON's experience and expertise in specialized concrete solutions. It focuses not only on technical performance but also on the development of a sustainable, safe, and energy-efficient living environment, meeting the increasing demands of modern construction for quality and longevity.

INTERTHERM is the smart choice for any underfloor heating system. With precise manufacturing, energy efficiency, and long-term reliability, it offers a modern solution that enhances thermal comfort and supports sustainable building—from the first layer.



## Key BENEFITS

### High Thermal Performance

Ensures fast and uniform heat distribution with lower energy consumption.

### Durability and Stability

Fiber reinforcement reduces cracking and ensures long-term reliability.

### Industrial Quality & Sustainability

Produced in certified INTERBETON ready-mix plants, providing consistent quality and a reduced environmental footprint.

## Technical Performance with Stability and Precision

INTERTHERM is a ready-mix, fiber-reinforced C25/30 screed (fast or normal setting), produced in state-of-the-art ISO-certified INTERBETON plants, with uniform quality and controlled raw material dosing bearing CE marking.

### Technical Characteristics

INTERTHERM is characterized by high mechanical strength, excellent thermal conductivity, industrial consistency, and ease of pumpability, ensuring reliable and efficient application:

- Strength class: C25/30, reinforced with appropriate polypropylene fiber dosage
- Available as C25/30 Fast-Setting and C25/30 Normal-Setting
- Characteristic compressive strength (sub): 30 MPa
- Flexural strength: 3 MPa
- Thermal conductivity (EN 12664):  $\lambda > 1.15 \text{ W/m}\cdot\text{K}$
- Density:  $2,300 \text{ kg/m}^3$
- Minimum application thickness: 5 cm
- Maximum application thickness: 7 cm
- Minimum drying time: 15 days (after curing)
- Compliant with DIN 18560 for floor screeds
- High pumpability



For more information,  
please refer to the  
INTERTHERM Technical  
Description brochure.



## Durability and Performance

INTERTHERM is an industrially produced underfloor heating filling concrete designed to provide structural stability, reliability, and energy efficiency.

Its standardized production ensures:

- Uniform mix composition
- Consistent thermal transfer
- Long-term durability of the underfloor system

Fiber reinforcement improves mechanical behavior and reduces the risk of defects during curing.

### Ready-Mix Industrial Product

- Stable technical properties in every delivery
- Homogeneous material from ISO-certified plants
- High thermal conductivity for improved energy efficiency
- Complete and uniform coverage of pipes and floor area
- Assured quality and precise dosage of raw materials—avoiding errors from on-site mixing
- Reduced energy consumption due to even heat distribution
- Minimization of air voids in the mass of the material—maintaining high thermal conductivity

### Fiber-Reinforced for Strength and Homogeneity

- Increased resistance to plastic shrinkage – fewer surface cracks
- Reduced bleeding for easier finishing
- Cohesive, homogeneous material, avoiding discontinuities or internal cracking, improving thermal and mechanical behavior

## Sustainability & Energy Efficiency

INTERTHERM is designed to support the energy efficiency and long-term sustainability of any underfloor heating system.

- High thermal conductivity ensures rapid and uniform heat delivery, reducing system energy consumption
- Stable composition and industrial production help lower both operational energy use and the overall environmental footprint
- Reduced need for repairs or interventions strengthens long-term functional durability

## Benefits for Energy Performance & the Environment

- Faster achievement of desired room temperature > lower total energy use
- Uniform heat distribution helps prevent cold spots and thermal bridges
- Durable, crack-resistant layer > long-term system stability
- Fewer interventions and energy-intensive renovations > higher overall sustainability
- Industrial production with strict quality control > reduced material waste and more precise quantities
- Lower environmental footprint compared to conventional, site-mixed screeds



## Fields of Application

INTERTHERM is used as the filling and covering layer over underfloor heating pipes, serving as the substrate before the final floor finish. In the case of wooden flooring, moisture content must be checked before installation according to the requirements of the flooring supplier.

## On-Site Advantages

INTERTHERM is engineered for easy use on site and maximum safety from day one:

- Can be pumped using a network pump or a conventional concrete pump through long flexible hoses
- Can be placed even in hard-to-reach or confined areas
- Compatible with underfloor heating formwork systems/boards
- Stable, homogeneous mix without segregation or settlement
- High workability, adjustable using a plasticizer if required
- Guaranteed material quality, without the risks of on-site mixing

## Guidelines & Points of Attention

To optimize the performance and durability of the INTERTHERM layer and the underfloor heating system, specific technical guidelines must be followed.

### Points of Attention

- The substrate must be clean and stable before placement to ensure proper bonding and uniform performance.
- After placement, curing must follow the Greek Concrete Technology Regulation (KTS).
- Expansion joints must be cut within 24 hours to avoid uncontrolled cracking.
- The heating system can be activated 15 days after completion of curing, with a gradual temperature increase.

### Practical Application Guidelines

- Where the structural slab is uneven or contains plumbing/electrical networks, it is recommended to use INTERFILL as a leveling and insulating layer to prevent thermal losses and thermal bridges.
- The INTERTHERM layer thickness should not exceed 7 cm, as greater thickness can slow system response time.
- Expansion joints are required for continuous surfaces larger than 25 m<sup>2</sup> or where the final floor finish changes.
- A perimeter insulation strip (5 mm) must be installed along walls and columns, and joints must be cut within the first day after placement.

# INTERTHERM

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Contact our team for more information  
on how INTERTHERM can support your project.

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