

# **INTERFIBER**

Polypropylene Fiber-Reinforced Concrete



## **Stops Cracks Before They Spread**

**Concrete with polypropylene fiber technology  
for stronger and more sustainable constructions**



**INTERBETON**

A TITAN GROUP COMPANY

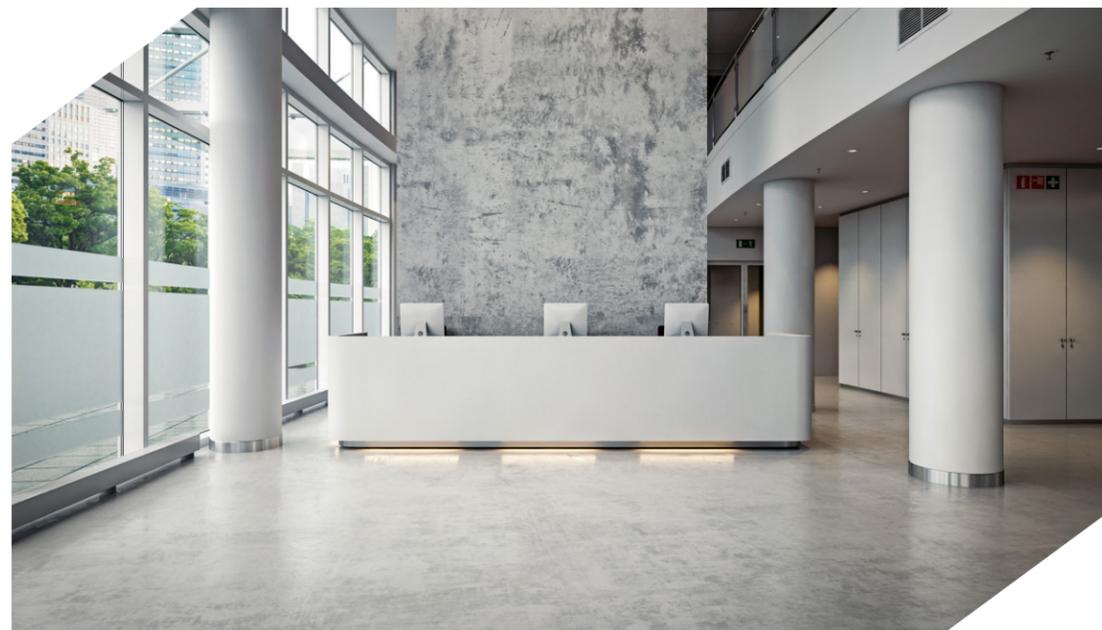
## Fiber Technology for Resilient Structures

INTERBETON, with a steadfast commitment to technical excellence, offers INTERFIBER to the Greek market—a high-performance solution that improves the quality and reliability of ready-mix concrete from placement through long-term durability. By incorporating high-tensile-strength monofilament polypropylene fibers, INTERFIBER forms a three-dimensional micro-reinforcement network within the fresh concrete. This significantly reduces plastic-shrinkage microcracking, improves cohesiveness and workability, and increases the overall durability of the concrete structure.

## Technical Reliability and Sustainability

This advanced technology is crucial for maintaining technical quality and long-term project reliability, while also improving sustainability by reducing repair needs and extending the service life of structural elements.

INTERFIBER is a complete technological solution for early-stage damage prevention. With its engineered composition, consistent performance, and quick response, it provides stronger, more dependable concrete with reduced maintenance needs. Integrating circular economy and sustainable construction principles, INTERFIBER is an excellent choice for structures that prioritize long-term durability, performance, and environmental responsibility.



## Key BENEFITS

### Higher Quality – Lower Footprint – Longer Life

#### Up to 80% Reduction in Cracks

The 3D micro-reinforcement fiber network drastically reduces plastic-shrinkage microcracks, increasing structural cohesion and long-term durability.

#### Up to 50% Less Bleeding

Homogeneous fiber dispersion reduces bleeding and surface porosity, delivering a cleaner, denser structure with improved resistance to wear and chemical exposure.

#### Up to 15% Savings in Construction & Maintenance Costs

Reduced early-age damage and cracking lowers repair requirements, decreases life-cycle costs, and eliminates the need for additional repair materials.

#### Reduced Environmental Footprint

By enhancing structural durability at the micro-scale, INTERFIBER reduces embodied carbon by up to 15%, supporting lower CO<sub>2</sub> emissions and longer-lasting construction.

## Unmatched Technical Performance

INTERFIBER incorporates polypropylene fibers fully and uniformly during production, providing structural and functional benefits from the early stages of setting and hardening. The fibers disperse throughout the entire concrete mass and become active during the setting phase, addressing internal stresses and preventing the development of microcracks that compromise durability.

### Technical Characteristics

- Reduces plastic shrinkage and prevents early cracking, improving durability, significantly reducing permeability, and slowing carbonation and chloride ingress.
- Creates three-dimensional micro-reinforcement, improving cohesiveness and mechanical stability during the early stages of hardening.
- Mitigates internal stresses caused by water evaporation before the final setting.
- Ensures full fiber dispersion, delivering uniform performance throughout the entire mass.
- Reduces bleeding and porosity, enhancing resistance to wear and chemical attacks, lowering water and chemical absorption, and maintaining a cleaner long-term surface.
- Prevents damage and reduces the need for repair materials, lowering CO<sub>2</sub> emissions associated with reconstruction.



INTERFIBER enhances structural durability without requiring changes to the concrete mix design or production process.



### Range of INTERFIBER Ready-Mix Concretes

	C16/20	C20/25	C25/30	C30/37	C35/45
Maximum aggregate size 31.5 mm	●	●	●	●	●
Maximum aggregate size 16 mm	●	●	●	●	●
Maximum aggregate size 8 mm				●	●
Suitable for industrial flooring		●	●	●	



For further information, please consult the INTERFIBER Technical Description brochure.

Proper curing of ready-mix concrete — including INTERFIBER — is essential. INTERFIBER does NOT replace structural reinforcement.

## Durability and Sustainability

INTERFIBER demonstrates that small-scale improvements can have large-scale impacts. Early microcracks and initial-age deterioration are among the primary causes of long-term structural weakening and higher maintenance costs.

By acting at the root of the problem, where deterioration begins, INTERFIBER forms a three-dimensional protective micro-mesh inside the concrete mass. It controls internal stresses, minimizes cracking and increases structural stability from the first hours of hardening. This leads to greater durability, a longer service life, and improved overall performance, while also lowering maintenance needs and CO<sub>2</sub> emissions associated with future repairs.

INTERFIBER aligns with circular-economy and sustainable-development principles, supporting the design and construction of more resilient, reliable, and environmentally responsible infrastructure. It is a preventive durability technology that enhances sustainability from the earliest stages of the construction's life cycle and sets new standards for quality and long-term performance in modern engineering.



## Fields of Application

- Indoor floors
- Slabs, raft foundations, and large-surface concrete placements
- Projects requiring high cohesiveness (pitched roofs, ramps)
- Architectural concrete (stamped, exposed)
- Final layers on flat roofs
- Ground slabs and industrial floors
- Walls, pools, coastal structures



## On-Site Advantages

INTERFIBER offers ease and safety during application without requiring specialized finishing techniques.

### Fast placement and immediate workability

- Increased cohesiveness and reduced bleeding enable easier placement and finishing with no paste–aggregate segregation.
- Eliminates the need for steel mesh reinforcement when it is specified solely for crack control, reducing overall cost.
- High pumpability.
- High-quality and aesthetic finish; fibers do not affect surface texture and can be removed through flame finishing or natural abrasion.
- Improved site management and faster project completion.

Expansion joints remain are still required when using INTERFIBER, just as they would in conventional concrete.



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

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