

INTERSTEEL

Powered by Dramix®



Steel fiber reinforced solutions

The New Benchmark of Sustainability & Performance in Industrial Floors



Reliability and Strength in Every Fiber

INTERBETON delivers a high-performance solution for constructing modern, sustainable industrial floors with INTERSTEEL, an advanced ready-mix concrete reinforced with steel fibers. With proven durability from placement to long-term use, INTERSTEEL reduces maintenance requirements, improves structural reliability, and guarantees the lasting quality of industrial flooring systems. It is the ideal choice for engineers and contractors looking for structural integrity, mechanical performance, and durability in every fiber.

Less Wear. Enhanced Performance. Real Economy.

The stability and surface uniformity of INTERSTEEL significantly reduce wear on forklifts and material-handling equipment operating in logistics centers.

The result:

- Fewer service stops
- Lower maintenance costs
- Increased vehicle uptime

For the facility owner or operator, this translates to:

- Lower operational costs
- Improved energy efficiency of equipment
- Faster return on investment

INTERSTEEL therefore delivers true Total Cost of Ownership (TCO) benefits—not only for the floor itself, but for the entire operation of the logistics center.

A New Era in Industrial Floors

Steel fiber–reinforced concrete is a technically and economically superior choice for modern industrial flooring.

It offers:

- High load-bearing capacity
- Improved crack control
- Enhanced fatigue resistance (up to +150% improvement per load cycle)
- Increased wear resistance

It replaces traditional steel mesh reinforcement, simplifying and accelerating construction while meeting the market's demand for faster, stronger, and more cost-effective floors with notably lower maintenance needs. INTERSTEEL holds a VESTA™ A sustainability rating and Environmental Product Declarations (EPDs*), confirming its excellent environmental performance and contribution to sustainable construction.

INTERSTEEL with Dramix® 3D Reinforcement & Long-Term Performance

The advanced Dramix® steel fibers used in INTERSTEEL feature optimized geometry and very high tensile strength, ensuring superior mechanical performance, reduced cracking, and extended service life. Dramix® fibers serve as a distributed three-dimensional reinforcement, providing superior resistance to repetitive loads and shear stresses. It is the leading technological solution for logistics centers demanding high-performance industrial floors.

Performance benefits include:

- +100–200% flexural toughness (fR,3 per EN 14651)
- improved geometrical stability
- superior durability under heavy and continuous loads

Steel fiber concrete enables:

- jointless or reduced-joint floors
- high operational continuity
- up to 80% reduction in maintenance costs and fewer operational interruptions



Key BENEFITS

Optimized Mix & Homogeneity

A precisely engineered mix that ensures uniform fiber distribution at the correct dosage, enhancing all critical properties during placement and curing.

Reliability Through Automated Production

Fibers are incorporated during automated batching, ensuring maximum consistency and product reliability.

Innovative Fibers for Floor Excellence

Advanced steel fibers that significantly enhance the critical performance characteristics required for high-quality industrial floors.

* Environmental Product Declarations (EPDs) are certified documents that provide transparent information on a product's environmental performance throughout its life cycle (CO₂ emissions, raw materials, energy use, etc.) in accordance with international standards.



Documented Technical Performance

INTERSTEEL is an advanced ready-mix concrete incorporating integrated steel fibers. Its carefully designed mix and controlled production process ensure consistent, technically superior performance and a reduced construction footprint. It is available in strength classes C20/25, C25/30, and C30/37 with documented mechanical performance. The selection of fiber type and dosage is based on functional requirements, ensuring excellent technical performance.

Technical Characteristics

Increased load-bearing capacity of concrete

- Enhanced structural behavior, allowing INTERSTEEL industrial floors to carry loads even after cracking occurs.
- High residual flexural strength, making INTERSTEEL floors more resistant to point loads (e.g. racking legs, forklift traffic).

Advanced design and construction

- Elimination of conventional welded mesh reinforcement, simplifying the construction process, saving time, and avoiding installation errors, while enabling jointless slab construction and improving joint layout by 50–80%.

Superior technical performance

- Excellent resistance to repeated dynamic loads, such as those generated by continuous forklift or AGV traffic
- Increased energy absorption capacity, reducing surface damage and spalling
- Improved resistance to wear, disintegration, and edge distress, particularly in high-traffic areas
- Resistance to freeze–thaw cycles, abrasion, and surface erosion
- High pumpability



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



On-site Advantages

INTERSTEEL is designed to simplify on-site operations and deliver substantial benefits during placement and finishing. The three-dimensional distribution of steel fibers ensures reinforcement throughout the entire element from the very first stages of hardening, while reducing the need for conventional reinforcement. This limits errors, accelerates construction, and enhances overall site safety and ergonomics.

- Optimized for on-site application: INTERSTEEL provides stability during placement, with high workability and pumpability, while reducing the need for finishing operations or special surface treatments.
- Reinforcement and placement in a single step: Steel fibers act as three-dimensional reinforcement, reducing construction and execution time by 20–30% and minimizing the risk of failures due to incorrect mesh installation.
- Immediate activation of fibers: From the early hardening stage, plastic shrinkage and drying cracks are reduced by 50–60%, ensuring surface integrity from the first day.
- Controlled bleeding: Allows smooth finishing and reduces the appearance of surface pores.
- High pumpability.
- Final surface aesthetics: The presence of fibers does not affect surface appearance and is suitable for epoxy coatings, providing heavy-duty performance and resistance to abrasion, oils, and chemicals.
- Improved site safety: Eliminating conventional welded mesh reinforcement significantly enhances workplace safety during construction and reduces the need for transporting and storing reinforcement materials.

Sustainable & Efficient Construction

With INTERSTEEL, the construction of industrial and commercial floors becomes more sustainable, efficient, and cost-effective. Its innovative steel-fiber composition reduces the environmental footprint, simplifies construction logistics, and extends the operational lifespan of the floor.

- Project Management Simplified
 - No need to procure, store, cut, or install steel mesh
 - Faster and smoother execution on site
- Reduced Environmental Impact
 - Less steel consumption
 - Simplified site operations
 - Lower CO₂ emissions throughout construction
- Lower Maintenance & Fewer Repairs
 - Higher mechanical and crack resistance significantly reduces daily wear and the need for localized patching—crucial for industrial and commercial floors
- 15–30% Lower Total Cost of Ownership (TCO)

Across the full life cycle due to:

 - Elimination of mesh reinforcement costs and faster construction
 - Improved joint longevity and fewer functional shutdowns
 - Reduced wear and long-term interventions
 - More predictable budgets over time
- Facility Repurposing Without Constraints

INTERSTEEL enables flexible building reuse because:

 - Rack layouts can be changed without mesh interference
 - Openings and penetrations can be made easily while preserving load-bearing capacity
 - Floors can be converted for office use with minimal remediation
 - MEP networks can be installed more freely thanks to the homogeneous fiber-reinforced substrate
- Sustainability Contributions

INTERSTEEL reduces:

 - Total steel consumption
 - Concrete volume through optimized floor thickness
 - Total CO₂ emissions over the project's service life
- Faster ROI

Thanks to shorter construction time and long-term maintenance savings



Application Fields

INTERSTEEL is ideal for projects exposed to heavy mechanical loads or requiring high durability, such as:

- Industrial floors (indoor & outdoor)
- Parking floors
- Slabs-on-ground
- Composite construction systems
- Building rehabilitation projects

Range of INTERSTEEL Ready-Mix Concretes

	C20/25	C25/30	C30/37
Maximum aggregate size 31,5 mm	●	●	●
Maximum aggregate size 16.0 mm	●	●	●
Rapid Setting	●	●	●

All INTERSTEEL mix designs are accompanied by certified environmental performance documentation.



INTERBETON has developed the VESTA® system, a certified tool for assessing the environmental performance of its concretes, based on CO₂ footprint calculations and life cycle assessment. VESTA® has been implemented since 2022 and is certified by the independent body BV, accredited by ESYP.



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

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