FibeRego
A brand by IKEM

Brass Coated Micro Steel Fiber (BCM SF-12)

Product Description

Fiberego's BCM SF-12 is a 12mm brass-coated micro steel fiber designed to provide enhanced reinforcement for concrete applications. This fiber is engineered for high-performance concrete, offering exceptional durability, improved crack resistance, and increased load-bearing capacity. The brass coating ensures better bonding and corrosion resistance, making it an ideal solution for demanding concrete environments.

Technical Specifications

Length	12mm
Diameter	0.15mm
Melting Point	1495℃
Tensile Strength	2.85GPa
Alkali&Acid Resistance	Good

Product Advantages

- **Uniform Multi-Directional Reinforcement:** Provides consistent reinforcement in all directions, significantly improving concrete's overall strength and stability.
- **Increased Durability:** The brass coating protects the fibers from corrosion, improving the lifespan of concrete structures exposed to harsh environments.
- **Enhanced Crack Resistance:** Improves crack resistance, ductility, and energy absorption, making concrete more resilient under stress.
- **Improved Load-Bearing Capacity:** High tensile strength fibers bridge cracks and joints, enhancing aggregate interlock and increasing load-carrying capacity.
- **Cost-Effective Solution:** Reduces the need for conventional rebar or wire mesh, offering a more economical and efficient reinforcement solution.
- **Ideal for Pumping and Sprayed Concrete:** Well-suited for applications requiring pumped or sprayed concrete, ensuring uniform thickness and eliminating voids behind traditional reinforcement.
- **Time-Saving:** Simplifies the construction process by eliminating the need for cutting, placing, and tying traditional reinforcement, speeding up project timelines.

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Applications

1. Industrial slabs
2. Pavements
3. Extended joints slab on ground
4. Blast-resistant structures and other structural concrete
5. Industrial slabs-on-ground
6. Airport pavements
7. Blast-resistant concrete
8. Equipment foundations
9. Precast
10. Jointless floors
11. Sprayed Concrete
12. Impact / Blast Resistant Concrete
13. UHPC Applications
14. Commercial and light industrial slabs on ground
15. Composite metal decks

FAQs

Q1: How does BCM SF-12 improve concrete's performance?
A1: BCM SF-12 increases crack resistance, ductility, and energy absorption, enhancing the overall toughness and load-bearing capacity of concrete.

Q2: What is the benefit of the brass coating on BCM SF-12 fibers?
A2: The brass coating provides better corrosion resistance, improving the durability and longevity of concrete structures in harsh environments.

Q3: Can BCM SF-12 be used in high-impact applications like blast-resistant concrete?
A3: Yes, BCM SF-12 is specifically designed to improve impact resistance, fatigue endurance, and shear strength, making it ideal for high-impact and blast-resistant applications.

Packaging

Steel fibers are packed in woven bags with an outer layer of kraft paper for enhanced protection. It is recommended to use orderly arranged cartons for easy distribution and use at construction sites, which also helps to prevent tangling and clumping of fibers.

Mixing and Application Recommendations:
Before construction, dry mixing should be performed by evenly spreading steel fibers into the refractory materials, followed by wet mixing. This approach effectively prevents clumping during wet mixing and ensures even distribution of steel fibers within the refractory materials.

Storage and Transportation

- **Storage Requirements:**
  Store in a dry, cool, and well-ventilated area to prevent corrosion.
- **Transportation Precautions for Steel Fibers:**
  Handle with care during loading and unloading to avoid damage.
  Ensure the transportation vehicle is dry and clean to prevent rust and contamination.
- **After-Opening Care for Steel Fibers:**
  If not all fibers are used upon opening, reseal the package promptly to prevent moisture exposure, which can lead to rust.
  Store partially used steel fibers for no longer than 12 months to maintain their quality and effectiveness.

Fiberego is a global manufacturer of fibers, specializing in a variety of fibers for the concrete industry.

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