



Black Embossed Synthetic PP Macrofiber (BE SPM-48)

Product Description

Fiberego's BE SPM-48 is a 48mm long black embossed synthetic polypropylene fiber, crafted to enhance concrete performance significantly. It serves as a robust, eco-friendly alternative to steel fibers, providing superior reinforcement while addressing environmental concerns associated with traditional materials.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	0.2, 0.6, 0.8, 1.0mm
Length	48mm
Tensile Strength	≥400MPa
Elastic Modulus	≥4.0GPa
Elongation	20 - 25%
Alkali&Acid Resistance	High

Product Advantages

- **Optimal Concrete Performance:** Uniquely graded fiber design reduces voids within the concrete matrix, ensuring enhanced structural integrity.
- **Cost and Labor Efficiency:** A practical three-dimensional reinforcement alternative that reduces reliance on traditional rebar or wire mesh, lowering both material and labor costs.
- **Enhanced Site Safety:** Eliminates hazards related to the handling of heavy steel reinforcements, such as bending and tying, thus improving overall safety at construction sites.
- **Environmental Benefits:** Significantly reduces the carbon footprint by replacing steel with a sustainable synthetic option that is widely accepted and DOT approved.
- **Improved Durability:** Offers high chemical resistance and is not susceptible to corrosion, extending the lifespan of concrete structures.
- **Time-Saving:** Simplifies construction processes with no need for cutting, placing, tying, or charring, speeding up project timelines.
- **Advanced Engineering:** Engineered to resist matrix pullout and to provide increased energy absorption, particularly effective in applications like sprayed concrete and areas requiring high impact resistance.

Applications

1. Slab-on-ground
2. Pavements
3. Composite metal decks
4. Mass concrete
5. Bridge decks
6. Sidewalks
7. Overlays
8. Precast elements
9. Industrial floors
10. Concrete linings
11. Slope stabilization
12. Sprayed concrete
13. Rock and ground support
14. Temporary and permanent concrete linings
15. Slope stabilization

FAQs

Q1: How does BE SPM-48 compare to traditional steel fibers in terms of environmental impact?

A1: BE SPM-48 offers a significant reduction in carbon footprint by replacing steel with synthetic fibers, contributing to more sustainable construction practices.

Q2: Can BE SPM-48 be used in structural applications traditionally dominated by steel rebar?

A2: Yes, BE SPM-48 is designed to perform comparably to steel rebar in many structural applications, providing necessary reinforcement without the risk of corrosion.

Q3: What are the key benefits of using BE SPM-48 in concrete applications?

A3: BE SPM-48 enhances the durability, safety, and environmental sustainability of concrete structures while also reducing construction time and costs.

Packaging

Inner Packaging:

- **Loose Plastic Bags:** Fibers are packaged loosely in standard plastic bags to preserve quality and prevent damage. Each pack contains 0.2-4 kg, depending on the customer's requirements.
- **Water-Soluble Film Wrapping:** For added convenience and environmental consideration, fibers can also be wrapped in water-soluble film, molded into cylindrical shapes to facilitate usage and disposal.

Outer Packaging:

- **Plastic Bag Packaging:** The plastic-bagged fibers are then placed either in cardboard boxes or woven bags, tailored to meet customer specifications and ensure safe transit.
- **Water-Soluble Film Packaging:** Fibers wrapped in water-soluble film are exclusively packed in cardboard boxes to maintain integrity and ease of handling.

Storage and Transportation

► Storage Requirements:

Store in a dry, cool, ventilated area.
Avoid direct sunlight to prevent degradation from UV exposure.
Keep away from humid environments to maintain fiber performance.
Avoid heavy pressure and high stacking to prevent packaging damage.

► Transportation Precautions:

Handle carefully during loading and unloading to prevent damage.
Ensure the transport vehicle is dry and clean to avoid moisture.
Protect from sharp objects and prevent heavy items from crushing the packaging.

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



FOR ASSISTANCE WITH FIBERS:

- ☎ +86 158 5427 9587
- ✉ info@fiberego-mikem.com (China office)
- ✉ sales@fiberego-mikem.com (US R&D office)
- 📍 No. 988, Shunxing Road, Tianqiao District, Jinan, Shandong, China