



Black Embossed Synthetic PP Macrofiber (BE SPM-40)

Product Description

Fiberego's Black Embossed Synthetic PP Macrofiber BE SPM-40 is a 40mm polypropylene fiber offering superior reinforcement for concrete. Designed to replace traditional steel reinforcements, this black embossed fiber integrates seamlessly into concrete mixes, enhancing strength and durability while reducing environmental impact and construction hazards.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	0.2, 0.6, 0.8, 1.0mm
Length	40mm
Tensile Strength	≥400MPa
Elastic Modulus	≥4.0GPa
Elongation	20 - 25%
Alkali&Acid Resistance	High

Product Advantages

- **Optimal Concrete Integration:** Minimizes voids in concrete matrices for improved structural integrity.
- **Cost-Effective Reinforcement:** Provides an efficient, three-dimensional alternative to steel fibers, wire mesh, or rebar, cutting overall construction costs.
- **Enhanced Safety:** Eliminates common job site risks by removing the need for heavy lifting and metal tying.
- **Environmental Sustainability:** Reduces carbon footprint by substituting traditional steel with high-performance synthetic fibers.
- **Increased Durability:** Offers superior chemical resistance and corrosion-free properties, extending the lifespan of concrete structures.
- **Labor Efficiency:** Simplifies construction processes with no need for cutting, tying, or placing, thereby accelerating project timelines.
- **Advanced Concrete Properties:** Improves concrete's impact resistance, reduces permeability, and enhances ductility and flexural toughness.

Applications

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

FAQs

Q1: How does BE SPM-40 contribute to sustainability in construction?

A1: By replacing steel with synthetic fibers, BE SPM-40 significantly lowers the ecological footprint, offering a greener alternative for reinforcing concrete.

Q2: Can BE SPM-40 be used in high-load bearing applications like bridge decks?

A2: Yes, BE SPM-40 is designed to provide robust reinforcement suitable for high-load applications including bridge decks and industrial flooring.

Q3: What makes BE SPM-40 a safer alternative to traditional rebar or steel fibers?

A3: BE SPM-40 eliminates the need for manual handling of heavy steel, reducing the risk of injuries and improving overall job site safety.

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.



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