



Bamboo Synthetic PP Macrofiber (BS SPM-48)

Product Description

Fiberego's Bamboo Synthetic PP Macrofiber BS SPM-48, measuring 48mm, offers advanced synthetic reinforcement for concrete applications. Engineered to mimic steel's structural benefits, this fiber reduces environmental impact and construction costs while enhancing concrete performance and safety.

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

- **Enhanced Concrete Integrity:** Minimizes voids within the concrete matrix, ensuring a denser and stronger composite.
- **Cost and Labor Efficient:** Acts as a viable alternative to steel, requiring no traditional mesh or rebar, thereby cutting down on labor and material costs.
- **Increased Safety:** Eliminates the need for heavy lifting and the associated hazards of traditional steel reinforcements on job sites.
- **Environmental Benefit:** Offers a sustainable option by significantly reducing the carbon footprint compared to steel.
- **Durability and Resistance:** High chemical resistance and non-corrosive nature prolong the lifespan of concrete structures.
- **Reduced Construction Time:** Simplifies logistics with no need for cutting, tying, or chairing, facilitating faster project completion.
- **Superior Performance:** Provides excellent crack control, abrasion resistance, and enhances the concrete's ductility and toughness.

Applications

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

FAQs

Q1: Can BS SPM-48 replace steel reinforcement in all types of concrete applications?

A1: Yes, BS SPM-48 can replace steel in various applications, providing equal or superior performance, especially in terms of durability and crack resistance.

Q2: What makes BS SPM-48 environmentally friendly compared to traditional steel?

A2: BS SPM-48 reduces the use of steel, which has a high carbon footprint from production to disposal, thus offering a greener alternative for reinforcing concrete.

Q3: How does BS SPM-48 contribute to the safety of construction sites?

A3: By eliminating the need for traditional rebar or wire mesh handling, BS SPM-48 reduces risks such as injuries from cutting and tying steel, making construction sites safer.

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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