



# White Embossed Synthetic PP Macrofiber (WE SPM-48)

## Product Description

Fiberego's White Embossed Synthetic PP Macrofiber WE SPM-48 is a 48mm long polypropylene fiber designed as a high-performance alternative to steel reinforcement in concrete applications. This synthetic macrofiber offers enhanced durability, reduced environmental impact, and superior structural integrity, making it ideal for modern construction needs.

## Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	0.2, 0.6, 0.8, 1.0mm
Length	48mm
Tensile Strength	≥550MPa
Elastic Modulus	≥5.0GPa
Elongation	20 - 25%
Alkali&Acid Resistance	High

## Product Advantages

- **Enhanced Structural Integrity:** Unique fiber design minimizes voids in the concrete matrix, enhancing the overall strength and durability of concrete structures.
- **Cost-Effective:** Serves as an economical and effective alternative to traditional steel reinforcement, reducing the overall cost of construction materials.
- **Safety Improvement:** Significantly increases job site safety by eliminating the need for lifting, bending, and tying steel reinforcements, thus reducing tripping hazards.
- **Time Efficiency:** Streamlines construction processes with no need for cutting, placing, or tying, speeding up project timelines.
- **Environmental Benefits:** Offers a sustainable option by reducing the embodied carbon associated with steel reinforcements.
- **Increased Durability:** Provides high chemical resistance and is corrosion-free, enhancing the longevity of concrete structures.
- **Improved Concrete Performance:** Increases ductility, flexural toughness, and provides effective post-crack reinforcement, maintaining structural integrity even after initial concrete damage.

## Applications

- |                          |  |
|--------------------------|--|
| 1. Slab-on-ground        | 13. Rock and ground support                  |
| 2. Pavements             | 14. Permanent and temporary concrete linings |
| 3. Composite metal decks | 15. Permanent and temporary rock support     |
| 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: How does WE SPM-48 compare to traditional steel reinforcement in terms of environmental impact?

A1: WE SPM-48 significantly reduces the carbon footprint by replacing steel with a synthetic material that does not corrode and has a lower overall environmental impact.

### Q2: Can WE SPM-48 be used in all types of concrete applications?

A2: Yes, WE SPM-48 is versatile and can be used in various concrete applications including pavements, bridge decks, and industrial slabs, providing robust reinforcement.

### Q3: What are the handling and installation benefits of WE SPM-48?

A3: WE SPM-48 enhances job site safety by removing the risks associated with steel reinforcement and is easier and quicker to distribute evenly in concrete, reducing labor and time 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