



White Embossed Synthetic PP Macrofiber (WE SPM-40)

Product Description

Fiberego's White Embossed Synthetic PP Macrofiber WE SPM-40 is a 40mm polypropylene fiber designed as a cost-effective and durable alternative to traditional steel reinforcement in concrete. These fibers are engineered to integrate seamlessly into concrete mixes, enhancing structural integrity and durability while offering a corrosion-free solution that significantly reduces construction time and labor.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	0.2, 0.6, 0.8, 1.0mm
Length	40mm
Tensile Strength	≥550MPa
Elastic Modulus	≥5.0GPa
Elongation	20 - 25%
Alkali&Acid Resistance	High

Product Advantages

- **Cost-Effective Reinforcement:** Offers a practical alternative to wire mesh and rebar, reducing overall material costs.
- **Enhanced Safety:** Eliminates common job site hazards associated with traditional reinforcement, such as lifting heavy steel, bending, and tripping.
- **Time Efficiency:** Simplifies the construction process as no cutting, placing, tying, or chairing of rebar is needed.
- **Environmental Benefit:** Lowers embodied carbon by replacing conventional steel reinforcement with synthetic fibers.
- **Durability:** High chemical resistance and immunity to corrosion enhance the longevity of concrete structures.
- **Reduced Permeability:** Lowers the risk of water ingress, thus enhancing the structural integrity of the concrete.
- **Improved Toughness:** Increases the ductility, flexural toughness, and energy absorption of concrete, particularly effective in sprayed concrete applications.

Applications

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|--------------------------|--------------------------------|
| 1. Slab-on-ground | 13. Rock and ground support |
| 2. Pavements | 14. Temporary concrete linings |
| 3. Composite metal decks | 15. Permanent 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-40 improve construction efficiency?

A1: It eliminates the need for cutting, placing, tying, and chairing of rebar, streamlining the construction process and significantly reducing labor.

Q2: What makes WE SPM-40 a more sustainable choice than traditional steel reinforcement?

A2: It reduces the carbon footprint by replacing steel with synthetic fibers, which are not only lighter but also do not rust or corrode, enhancing sustainability.

Q3: Can WE SPM-40 be used in place of wire mesh in concrete applications?

A3: Yes, WE SPM-40 is designed to perform as well as or better than traditional wire mesh, providing equivalent strength and improved durability due to its high chemical resistance and non-corrosive properties.

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