



White Embossed Synthetic PP Macrofiber (WE SPM-54)

Product Description

Fiberego's White Embossed Synthetic PP Macrofiber WE SPM-54, measuring 54mm in length, is a high-performance synthetic fiber designed as an effective alternative to traditional steel reinforcement in concrete. This product integrates seamlessly into various concrete mixes, providing superior reinforcement, reducing construction time, and enhancing safety on job sites.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	0.2, 0.6, 0.8, 1.0mm
Length	54mm
Tensile Strength	≥550MPa
Elastic Modulus	≥5.0GPa
Elongation	20 - 25%
Alkali&Acid Resistance	High

Product Advantages

- **Enhanced Concrete Integrity:** Uniquely graded fibers minimize voids within the concrete matrix, ensuring a denser, more robust structure.
- **Cost Efficiency:** Serves as a three-dimensional reinforcement that is more cost-effective than traditional methods such as wire mesh or rebar.
- **Reduced Construction Time:** Eliminates the need for cutting, placing, tying, and chairing of rebar, streamlining the construction process.
- **Environmental Sustainability:** Significantly reduces the embodied carbon footprint by replacing conventional steel reinforcement with synthetic fibers.
- **Increased Durability:** Offers high chemical resistance and is corrosion-free, extending the lifespan of concrete structures.
- **Improved Safety:** Reduces common job site hazards by eliminating the need for heavy lifting and minimizing tripping risks.
- **Superior Performance:** Enhances ductility, flexural toughness, and provides effective post-first-crack reinforcement.

Applications

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| 1. Slab-on-ground | 13. Rock and ground support |
| 2. Pavements | 14. Temporary and permanent 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: How does WE SPM-54 improve the safety of construction sites?

A1: WE SPM-54 removes the risks associated with lifting and bending steel reinforcements, significantly reducing tripping hazards.

Q2: What are the environmental benefits of using WE SPM-54?

A2: By replacing steel with synthetic fibers, WE SPM-54 reduces the carbon footprint associated with the production and disposal of metal reinforcements.

Q3: Can WE SPM-54 be used in place of steel in all concrete applications?

A3: Yes, WE SPM-54 is designed to perform equally or better than steel in various concrete applications, from basic slabs to complex structures like bridge decks and overlays.

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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