



Monofilament PP Microfiber (MPF-09)

Product Description

Fiberego's Monofilament PP Microfiber MPF-09 is a 9mm polypropylene monofilament fiber designed exclusively for the concrete industry. This innovative product enhances concrete integrity and performance, ensuring optimal results for various construction applications.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	30-32 μ m
Length	9mm
Alkali&Acid Resistance	High
Tensile Strength	≥ 500 MPa
Elastic Modulus	≥ 3.5 GPa
Elongation	20 - 25%
Melting Point	160-170°C

Product Advantages

- **Early Age Strength:** Boosts green strength, vital for early-stage structural integrity.
- **Crack Reduction:** Controls and inhibits the formation of intrinsic cracking, significantly reducing plastic shrinkage and settlement issues.
- **Durability Enhancement:** Increases the concrete's resistance to abrasion and shattering forces, thereby enhancing longevity.
- **Weather Resilience:** Minimizes cracking linked to freeze/thaw cycles, ensuring stability across diverse climates.
- **Efficiency in Application:** Allows for the application of thicker layers in sprayed concrete processes, reducing material waste and rebound.
- **Fire Resistance:** Helps to diminish the incidence of fire explosive spalling.
- **Cohesion Improvement:** Enhances the uniformity of the concrete mix, reducing segregation and bleeding.

Applications

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|--------------------------------|-------------------------|
| 1. Slabs on ground | 13. Multi-story garages |
| 2. Sidewalks | 14. Septic tanks |
| 3. Driveways | 15. Walls |
| 4. Decks | |
| 5. Curbs | |
| 6. Stamped finishes | |
| 7. Precast elements | |
| 8. Overlays | |
| 9. Shotcrete | |
| 10. Bridge decks | |
| 11. High rise buildings | |
| 12. Concrete framed structures | |

FAQs

Q1: What sets MPF-09 apart from other fibers in enhancing concrete durability?

A1: MPF-09 fibers are specifically engineered to interlock within concrete, providing unmatched crack resistance and structural integrity.

Q2: How does MPF-09 improve the workability of concrete?

A2: The fibers help to evenly distribute within the mix, enhancing workability and reducing the need for additional water, which can weaken the concrete.

Q3: Can MPF-09 be used in environmentally sensitive areas?

A3: Yes, MPF-09 is made from non-toxic, environmentally friendly materials that do not leach harmful chemicals, making it suitable for sensitive applications.

Packaging

- **Inner Packaging:** Each pack contains 0.2-4 kg, sealed in standard plastic bags for quality preservation.
Outer Packaging: Packs are placed in woven bags or cardboard boxes, each weighing 10-20 kg, tailored to customer specifications.
- **Customized Options:** Available in water-soluble film, water-soluble paper, or regular paper bags for diverse needs.
Compression Packaging: Reduces volume for efficient storage and transport, enhancing cost-effectiveness and sustainability.

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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