



## Monofilament PP Microfiber (MPF-06)

### Product Description

Fiberego's Monofilament PP Microfiber MPF-06 is a high-performance, 6mm long polypropylene single-filament fiber designed exclusively for the concrete industry. These fibers are engineered to enhance the mechanical properties of concrete, providing superior reinforcement and durability to various concrete structures.

### Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	30-32 $\mu\text{m}$
Length	6mm
Alkali&Acid Resistance	High
Tensile Strength	$\geq 500\text{MPa}$
Elastic Modulus	$\geq 3.5\text{GPa}$
Elongation	20 - 25%
Melting Point	160-170°C

### Product Advantages

- **Enhances Early Age Strength:** Improves concrete's initial integrity and durability.
- **Inhibits Cracking:** Effectively controls and reduces the formation of cracks due to shrinkage and thermal changes.
- **Increases Cohesion:** Reduces segregation and enhances the uniformity of the concrete mix.
- **Durability:** Offers increased resistance to abrasion and shattering forces, extending the life of concrete structures.
- **Freeze/Thaw Resistance:** Minimizes damage in extreme weather conditions, maintaining structural integrity.
- **Fire Resistance:** Reduces explosive spalling in fire situations, improving safety.
- **Efficiency in Application:** Lowers material waste and allows for thicker application layers in sprayed concrete.

## Applications

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

## FAQs

### Q1: What makes MPF-06 suitable for high-rise constructions?

A1: Its high tensile strength and resistance to environmental stressors ensure durability and structural integrity at great heights.

### Q2: Can MPF-06 be used in residential constructions?

A2: Yes, its versatility makes it ideal for residential applications, enhancing the durability and safety of homes.

### Q3: How does MPF-06 contribute to sustainability in construction?

A3: By reducing the need for repairs and replacements, MPF-06 extends the lifecycle of concrete structures, contributing to more sustainable building practices.

## 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.



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