



# Monofilament PP Microfiber (MPF-15)

## Product Description

Fiberego's Monofilament PP Microfiber MPF-15, measuring 15mm in length, is specifically designed for enhancing concrete performance in the construction industry. This polypropylene microfiber offers exceptional durability and resistance to environmental factors, making it an indispensable component for modern concrete applications.

## Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	30-32 $\mu\text{m}$
Length	15mm
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

- **Enhanced Structural Integrity:** Significantly increases early age strength, enhancing the concrete's load-bearing capabilities soon after placement.
- **Improved Cohesion:** Actively reduces segregation and enhances the uniformity of the concrete mix.
- **Crack Resistance:** Inhibits the formation of intrinsic cracking and mitigates the occurrence of plastic shrinkage and settlement cracking.
- **Abrasion Resistance:** Offers superior resistance to wear and tear, extending the lifespan of concrete structures.
- **Environmental Resistance:** Effectively reduces the impact of freeze/thaw cycles on concrete integrity.
- **Fire Resilience:** Lowers the risk of fire spalling, enhancing safety.
- **Efficiency in Use:** Permits the application of thicker concrete layers, optimizing material use and reducing waste.

## 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. High rise buildings
12. Concrete framed structures
13. Multi-story garages
14. Hazardous material storage
15. Marine products

## FAQs

### Q1: What is the primary function of MPF-15 in concrete applications?

A1: MPF-15 is primarily used to enhance the structural integrity of concrete by increasing its tensile strength and resistance to environmental stressors.

### Q2: Can MPF-15 be used in residential construction?

A2: Yes, MPF-15 is ideal for residential construction applications like sidewalks and driveways, providing durability and improved load-bearing capacity.

### Q3: How does MPF-15 contribute to environmental sustainability?

A3: By enhancing the durability and lifespan of concrete structures, MPF-15 reduces the need for frequent repairs and replacements, thereby minimizing construction waste and resource consumption.

## 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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