



# Monofilament PP Microfiber (MPF-19)

## Product Description

Fiberego's Monofilament PP Microfiber MPF-19 is a robust 19mm polypropylene fiber tailored for the concrete industry. Engineered to enhance concrete's mechanical properties, this product significantly improves the durability and structural integrity of concrete applications, catering specifically to high-demand environments.

## Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	30-32 $\mu$ m
Length	19mm
Alkali&Acid Resistance	High
Tensile Strength	$\geq 500$ MPa
Elastic Modulus	$\geq 3.5$ GPa
Elongation	20 - 25%
Melting Point	160-170°C

## Product Advantages

- **Enhanced Durability:** Increases the concrete's resistance to environmental stressors, such as freeze/thaw cycles, reducing the incidence of cracking.
- **Improved Cohesion:** Actively works to reduce segregation and enhance the uniformity of the concrete mix, ensuring consistent quality.
- **Crack Resistance:** Effectively controls and inhibits the formation of intrinsic cracking, safeguarding the structure's integrity.
- **Reduced Shrinkage:** Minimizes plastic shrinkage and settlement cracking, critical for maintaining the concrete's aesthetic and structural qualities.
- **Impact and Abrasion Resistance:** Increases the concrete's ability to withstand external impacts and abrasion, extending its service life.
- **Fire Resistance:** Enhances the concrete's ability to resist fire spalling, adding an essential safety feature.
- **Efficiency in Application:** Permits the application of thicker layers in sprayed concrete, 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. Marine products
15. Walls

## FAQs

### Q1: How does MPF-19 enhance concrete durability?

A1: MPF-19 reinforces concrete by increasing its resistance to environmental conditions and mechanical stress, significantly extending its lifespan.

### Q2: Can MPF-19 be used in residential constructions?

A2: Absolutely, MPF-19 is suitable for residential applications such as sidewalks and driveways, enhancing durability and wear resistance.

### Q3: What makes MPF-19 a preferable choice in high-demand environments?

A3: Its ability to inhibit cracking and withstand harsh conditions makes MPF-19 ideal for high-demand applications such as high-rise buildings and bridge decks.

## 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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