



# Fibrillated PP Microfiber (FPM-19)

## Product Description

Fiberego's Fibrillated PP Microfiber FPM-19 is a specialized 19mm polypropylene network microfiber designed for concrete reinforcement. This innovative product integrates seamlessly into concrete mixes, providing superior reinforcement, enhanced durability, and improved mechanical properties to concrete structures within the construction industry.

## Technical Specifications

Composition	100% Virgin Polypropylene
Length	19mm
Alkali&Acid Resistance	High
Melting Point	160-170°C
Tensile Strength	≥400MPa
Elastic Modulus	≥3.5GPa
Elongation	20 - 25%

## Product Advantages

- **Enhanced Early Age Strength:** Increases the green strength of concrete, ensuring better stability soon after pouring.
- **Crack Resistance:** Effectively reduces and controls the formation of intrinsic cracking and minimizes shrinkage and settlement issues.
- **Improved Durability:** Offers superior resistance against abrasion and shattering forces, enhancing the longevity of concrete structures.
- **Weather Resistance:** Provides robust protection against freeze/thaw cycles, maintaining structural integrity under varying environmental conditions.
- **Efficiency in Construction:** Reduces material waste and rebound in sprayed concrete applications, optimizing the construction process.
- **Safety Features:** Lowers the likelihood of fire spalling, increasing the safety of the concrete installations.
- **Cohesion Enhancement:** Improves the cohesion of the concrete mix, reducing segregation and promoting uniform consistency.

## Applications

- |                                |                         |
|--------------------------------|-------------------------|
| 1. Slabs on ground             | 13. Multi-story garages |
| 2. Sidewalks                   | 14. Marine products     |
| 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: How does FPM-19 contribute to concrete durability?

A1: FPM-19 enhances concrete durability by reinforcing against environmental and mechanical stresses, effectively extending the lifespan of concrete structures.

### Q2: Can FPM-19 be used in residential projects?

A2: Yes, FPM-19 is ideal for residential applications such as sidewalks and driveways, providing enhanced durability and resistance to wear and tear.

### Q3: What makes FPM-19 different from traditional reinforcement materials?

A3: Unlike traditional steel mesh, FPM-19 offers superior resistance to corrosion, does not interfere with electromagnetic fields, and provides enhanced crack control with a lower dosage requirement.

## 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.

We strive to ensure that any advice, recommendation, or information provided in our product literature is accurate and correct. However, due to the fact that we do not have direct or continuous control over where or how the products are applied, FibeRego cannot accept any liability, either directly or indirectly, arising from the use of our products, whether or not in accordance with any advice, specification, recommendation, or information provided by us.

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