



# Monofilament PP Super Microfiber (MPM-12)

## Product Description

Fiberego's Monofilament PP Super Microfiber MPM-12, a 12mm polypropylene ultrafine fiber, is designed to reinforce concrete, enhancing its structural integrity and durability. This microfiber is specifically engineered to distribute uniformly throughout the concrete mix, providing enhanced mechanical properties and superior crack resistance.

## Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	$\leq 18\mu\text{m}$
Length	12mm
Alkali&Acid Resistance	High
Tensile Strength	$\geq 550\text{MPa}$
Elastic Modulus	$\geq 5.0\text{GPa}$
Melting Point	160-170°C

## Product Advantages

- **Early Strength Enhancement:** Boosts green strength, which is crucial for the early stages of concrete setting and hardening.
- **Crack Reduction:** Significantly reduces both intrinsic and shrinkage-related cracking, increasing the longevity of the concrete.
- **Improved Durability:** Enhances the concrete's resistance to environmental and mechanical stresses, such as freeze/thaw cycles and abrasion.
- **Enhanced Cohesion:** Reduces material segregation and promotes more uniform consistency throughout the concrete mix.
- **Fire Safety:** Minimizes the risk of explosive spalling in fire situations, making structures safer.
- **Construction Efficiency:** Allows for thicker applications in sprayed concrete, reducing rebound and waste.
- **Environmental Protection:** Inhibits water migration, protecting the structural integrity against moisture-related damages.

## 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. Precast structures
15. Hazardous material storage

## FAQs

### Q1: What primary benefit does MPM-12 provide in concrete applications?

A1: MPM-12 significantly enhances the durability and crack resistance of concrete, making it ideal for both structural and aesthetic applications.

### Q2: Is MPM-12 suitable for use in residential construction?

A2: Yes, MPM-12 is excellent for residential applications, improving the lifespan and safety of concrete elements such as driveways and sidewalks.

### Q3: How does MPM-12 compare to traditional reinforcement materials like steel mesh?

A3: MPM-12 provides superior crack control, is easier to handle, and does not corrode, offering longer-lasting reinforcement without the drawbacks of steel.

## 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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