



Monofilament PP Super Microfiber (MPM-19)

Product Description

Fiberego's Monofilament PP Super Microfiber MPM-19 is a premium 19mm polypropylene microfiber designed to significantly enhance the structural properties of concrete. This super microfiber is engineered for optimal distribution within concrete mixtures, improving durability, and resistance to environmental stresses, thereby extending the lifespan of concrete structures.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	≤18μm
Length	19mm
Alkali&Acid Resistance	High
Tensile Strength	≥550MPa
Elastic Modulus	≥5.0GPa
Melting Point	160-170°C

Product Advantages

- **Increased Durability:** Enhances the structural integrity of concrete, significantly extending its service life under various conditions.
- **Improved Cohesion:** Reduces segregation and increases the uniformity of the concrete mix, leading to better overall quality.
- **Crack Control:** Effectively reduces the formation of intrinsic and shrinkage cracks, maintaining aesthetic and structural quality.
- **Environmental Resistance:** Provides robust protection against freeze/thaw cycles and inhibits water migration, crucial for maintaining structural integrity.
- **Efficiency in Application:** Allows for the application of thicker layers in sprayed concrete, reducing rebound and waste.
- **Safety Enhancements:** Reduces the likelihood of explosive spalling in fire situations, enhancing safety.
- **Replacement for Steel Mesh:** Acts as an alternative to traditional steel reinforcement, offering similar strength without the risk of corrosion.

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: How does MPM-19 contribute to the early strength of concrete?

A1: MPM-19 enhances early age strength, providing crucial support during the initial curing phase of concrete.

Q2: Can MPM-19 be used for environmental control structures like tanks and pools?

A2: Yes, its ability to inhibit water migration makes it ideal for use in structures that require robust environmental resistance.

Q3: What makes MPM-19 a better option than traditional reinforcement materials?

A3: MPM-19 offers enhanced resistance to environmental factors, does not corrode like steel, and provides superior concrete bonding and crack control.

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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