



Monofilament PP Super Microfiber (MPM-06)

Product Description

Fiberego's Monofilament PP Super Microfiber MPM-06, a 6mm polypropylene ultrafine fiber, is specifically engineered for the concrete industry to enhance structural integrity and longevity. This microfiber effectively integrates into concrete mixtures, offering superior reinforcement and performance in diverse applications.

Technical Specifications

| | |
|------------------------|---------------------------|
| Composition | 100% Virgin Polypropylene |
| Diameter | $\leq 18\mu\text{m}$ |
| Length | 6mm |
| Alkali&Acid Resistance | High |
| Tensile Strength | $\geq 550\text{MPa}$ |
| Elastic Modulus | $\geq 5.0\text{GPa}$ |
| Melting Point | 160-170°C |

Product Advantages

- **Enhanced Durability:** Increases the concrete's resistance to environmental factors such as freeze/thaw cycles, reducing the likelihood of cracking.
- **Improved Cohesion:** Actively reduces segregation, ensuring a more uniform and consistent mix throughout the concrete structure.
- **Crack Prevention:** Significantly inhibits the formation of intrinsic cracking and reduces both plastic shrinkage and settlement cracks.
- **Impact and Abrasion Resistance:** Boosts the concrete's ability to withstand external forces and wear, extending the lifespan of concrete structures.
- **Fire Safety:** Lowers the risk of explosive spalling in high-temperature scenarios, enhancing the safety of the concrete installations.
- **Construction Efficiency:** Permits the application of thicker layers in sprayed concrete, minimizing material waste and rebound.
- **Replacement for Wire Mesh:** Serves as an effective alternative to typical light gauge wire mesh, offering equivalent strength with lower material usage.

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 makes MPM-06 ideal for high-traffic areas like driveways and sidewalks?

A1: MPM-06's high tensile strength and abrasion resistance make it perfect for areas subjected to frequent use, preventing wear and tear.

Q2: Can MPM-06 be used in freeze/thaw climates?

A2: Yes, MPM-06 is designed to withstand harsh climates by reducing the impact of freeze/thaw cycles on concrete.

Q3: How does MPM-06 compare to traditional reinforcement methods?

A3: MPM-06 provides enhanced reinforcement, reduces labor costs, and offers better crack control compared to traditional steel mesh.

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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