



Monofilament PP Microfiber (MPF-12)

Product Description

Fiberego's Monofilament PP Microfiber MPF-12 is a high-quality, 12mm polypropylene single-filament fiber engineered for the concrete industry. This product significantly enhances the mechanical properties of concrete, providing essential support in structural applications and durability under various environmental conditions.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	30-32 μm
Length	12mm
Alkali&Acid Resistance	High
Tensile Strength	$\geq 500\text{MPa}$
Elastic Modulus	$\geq 3.5\text{GPa}$
Elongation	20 - 25%
Melting Point	160-170°C

Product Advantages

- **Increased Structural Integrity:** Enhances early age strength and reduces the risk of concrete cracking and settlement.
- **Durability:** Offers superior resistance against abrasion and the harsh effects of freeze/thaw cycles, prolonging the concrete's lifespan.
- **Improved Workability:** Facilitates easier application and compaction, reducing labor effort and enhancing the finish quality.
- **Efficient Usage:** Lowers the material waste and rebound in sprayed concrete applications, optimizing resource use.
- **Fire Resistance:** Minimizes the risk of fire spalling, enhancing safety in fire-prone environments.
- **Cohesion and Stability:** Increases cohesion within the concrete mix, preventing segregation and improving consistency throughout.
- **Environmental Resistance:** Provides robust protection against water infiltration and environmental decay.

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: What makes MPF-12 ideal for use in high-rise buildings?

A1: Its superior tensile strength and crack resistance ensure structural integrity at significant heights, making it ideal for high-rise applications.

Q2: Can MPF-12 be used in residential constructions?

A2: Absolutely, MPF-12 is designed to enhance both the aesthetic and functional aspects of residential concrete applications like sidewalks and driveways.

Q3: How does MPF-12 contribute to sustainable building practices?

A3: By reducing the need for repairs and enhancing the durability of concrete structures, MPF-12 helps in lowering the carbon footprint associated with frequent construction activities.

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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