



Cellulose Fiber (CF-03)

Product Description

Fiberego's CF-03 is a 3mm cellulose fiber designed to reinforce concrete and enhance its mechanical properties. Made from sustainable, natural plant-based materials, CF-03 offers eco-friendly reinforcement while improving the strength, crack resistance, and durability of concrete. It is an ideal solution for projects that prioritize both high performance and environmental sustainability.

Technical Specifications

Composition	Wood fiber
Equivalent Diameter	15-25 μ m
Alkali&Acid Resistance	High
Length	3mm
Specific gravity	1.0 - 1.2g/cm ³

Product Advantages

- **Eco-Friendly Reinforcement:** CF-03 is made from natural, biodegradable cellulose fibers, contributing to a more sustainable construction process.
- **Improved Crack Resistance:** Enhances the concrete's ability to resist cracking due to shrinkage, thermal stress, and mechanical loads.
- **Increased Durability:** Increases concrete's resistance to environmental degradation, improving its longevity in harsh conditions.
- **Better Workability:** Improves the workability and ease of application, making the concrete mix easier to handle and apply.
- **Water Retention:** Reduces water migration within the concrete, improving water retention and contributing to overall stability.
- **Strength Enhancement:** Provides additional tensile strength to concrete, reducing the likelihood of structural failure under load.
- **Cost-Effective:** Offers an affordable alternative to synthetic fibers while providing similar or better performance benefits.

Applications

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|------------------------------------|-------------------------|
| 1. Residential concrete slabs | 12. Decorative concrete |
| 2. Commercial building foundations | 13. Retaining walls |
| 3. Industrial flooring | 14. Road construction |
| 4. Pavements | 15. Airport runways |
| 5. Bridge decks | |
| 6. Shotcrete applications | |
| 7. Precast concrete elements | |
| 8. Tunnel linings | |
| 9. Parking lots | |
| 10. Sidewalks | |
| 11. Water reservoirs | |

FAQs

Q1: How does CF-03 improve the performance of concrete?

A1: CF-03 enhances concrete's crack resistance, durability, and workability, ensuring better performance in structural applications and prolonging the lifespan of concrete elements.

Q2: Can CF-03 be used in harsh environmental conditions?

A2: Yes, CF-03 is highly resistant to moisture and environmental stressors, making it ideal for applications in challenging environments such as water reservoirs, marine structures, and outdoor concrete.

Q3: What makes CF-03 more sustainable than synthetic fibers?

A3: CF-03 is made from renewable plant-based materials, offering an eco-friendly solution that biodegrades naturally, reducing environmental impact compared to synthetic fibers made from petrochemical products.

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.
- **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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