



# Cellulose Fiber (CF-02)

## Product Description

Fiberego's CF-02 is a 2mm cellulose fiber designed to enhance the properties of concrete. Made from natural plant-based materials, CF-02 offers eco-friendly reinforcement to concrete, improving its strength, crack resistance, and workability. It is an ideal solution for concrete applications where sustainability and performance are key, providing an effective alternative to synthetic fibers.

## Technical Specifications

Composition	Wood fiber
Equivalent Diameter	15-25µm
Alkali&Acid Resistance	High
Length	2mm
Specific gravity	1.0 - 1.2g/cm <sup>3</sup>

## Product Advantages

- **Eco-Friendly Reinforcement:** Made from natural, biodegradable cellulose fibers, contributing to sustainable construction practices.
- **Improved Crack Resistance:** Enhances the crack resistance of concrete by distributing stresses evenly throughout the mix.
- **Increased Workability:** Improves the workability and handling of fresh concrete, making it easier to mix and apply.
- **Enhanced Durability:** Increases the concrete's resistance to shrinkage, thermal cracking, and environmental wear.
- **Reduces Water Migration:** Helps prevent water migration within the concrete, improving its water retention and long-term stability.
- **High Tensile Strength:** Provides added strength to concrete, reducing the likelihood of structural failure under load.
- **Cost-Effective:** Offers a more economical reinforcement solution compared to other fibers, reducing material and labor costs.

## Applications

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

## FAQs

### Q1: What is the main benefit of using cellulose fiber in concrete?

A1: Cellulose fiber improves crack resistance and durability, making concrete more resilient under mechanical and environmental stresses while providing an eco-friendly reinforcement solution.

### Q2: Can CF-02 be used in place of synthetic fibers?

A2: Yes, CF-02 is a natural and biodegradable alternative to synthetic fibers, offering similar benefits in terms of crack resistance and workability while being environmentally friendly.

### Q3: How does CF-02 contribute to sustainable construction practices?

A3: CF-02 is made from renewable plant-based materials, offering an eco-friendly solution that reduces reliance on synthetic fibers and supports environmentally responsible construction.

## 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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