



Twisted Bundle PP Fiber (TBPM B-40)

Product Description

Fiberego's TBPM B-40 is a premium 40mm twisted bundle polypropylene fiber, engineered for exceptional performance in concrete reinforcement. This innovative product provides enhanced durability, superior crack control, and increased load-bearing capacity, making it ideal for a range of concrete applications where high performance is required.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	1.2mm
Length	40mm
Alkali&Acid Resistance	High
Tensile Strength	≥400MPa
Elastic Modulus	≥3.5GPa
Elongation	20 - 25%
Melting Point	160-170°C

Product Advantages

- **Superior Crack Resistance:** Significantly reduces the formation of micro-cracks in concrete by distributing stresses uniformly.
- **Enhanced Durability:** Improves concrete's lifespan by increasing its resistance to environmental stressors and mechanical loads.
- **Improved Load Distribution:** Helps to distribute loads more evenly throughout the concrete structure, enhancing its overall strength.
- **Cost Efficiency:** Offers a cost-effective alternative to traditional steel reinforcements, with easier handling and faster installation.
- **High Tensile Strength:** Provides high tensile strength, ensuring the concrete maintains its integrity under tension.
- **Environmental Resistance:** Highly resistant to chemicals and moisture, ensuring long-lasting performance in various environments.
- **Ease of Integration:** Designed to mix easily and uniformly into concrete without balling or clumping.

Applications

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|------------------------------------|-------------------------------|
| 1. Commercial building foundations | 12. Precast concrete products |
| 2. Industrial flooring | 13. Overlays |
| 3. Residential driveways | 14. Marine structures |
| 4. Parking lots | 15. Decorative concrete |
| 5. Bridge decks | |
| 6. Pavements | |
| 7. Airport runways | |
| 8. Tunnel linings | |
| 9. Retaining walls | |
| 10. Hydraulic structures | |
| 11. Earthquake-resistant con- | |

FAQs

Q1: How does TBPM B-40 enhance concrete performance compared to traditional fibers?

A1: TBPM B-40 enhances concrete by providing superior crack control, better load distribution, and increased durability, outperforming traditional fibers in demanding environments.

Q2: Is TBPM B-40 suitable for all types of concrete applications?

A2: Yes, TBPM B-40 is versatile enough for use in various concrete applications, from residential projects to large-scale industrial and infrastructure projects.

Q3: What are the installation benefits of using TBPM B-40?

A3: TBPM B-40 is easier to handle and install compared to traditional steel fibers, reducing labor costs and time on site without compromising the quality of concrete reinforcement.

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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