



Twisted Bundle PP Fiber (TBPM G-40)

Product Description

Fiberego's TBPM G-40 is a 40mm twisted bundle polypropylene (PP) fiber designed to enhance the performance of concrete. This innovative product leverages a unique twisted bundle configuration to provide superior crack control, increased durability, and improved tensile strength for concrete applications. TBPM G-40 is an ideal solution for optimizing concrete mixes in a variety of construction settings, promoting longevity and structural integrity.

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 Control:** Effectively minimizes the formation of micro-cracks and helps maintain structural integrity under stress.
- **Enhanced Tensile Strength:** Increases the tensile strength of concrete, providing greater resistance to stretching and tearing.
- **Improved Durability:** Enhances the durability of concrete by distributing loads evenly and resisting weather-related degradation.
- **Cost-Effective:** Offers a cost-efficient alternative to traditional reinforcement methods, reducing overall material costs.
- **Ease of Use:** Simplifies the mixing process due to its design, ensuring uniform distribution within the concrete.
- **Increased Impact Resistance:** Provides enhanced protection against impact and load-related stresses.
- **Environmental Resistance:** Offers improved resistance to chemical exposure and environmental elements, extending the useful life of concrete structures.

Applications

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|-------------------------------|-------------------------|
| 1. Road pavements | 13. Retaining walls |
| 2. Industrial flooring | 14. Decorative concrete |
| 3. Bridge decks | 15. Tunnel linings |
| 4. Parking lots | |
| 5. Driveways | |
| 6. Sidewalks | |
| 7. Foundation slabs | |
| 8. Precast concrete elements | |
| 9. Shotcrete applications | |
| 10. Airport runways | |
| 11. Seismic retrofit projects | |
| 12. Marine constructions | |

FAQs

Q1: How does the twisted bundle design of TBPM G-40 benefit concrete applications?

A1: The twisted bundle design enhances the interlocking and bonding with the concrete matrix, significantly improving crack resistance and structural strength.

Q2: Is TBPM G-40 suitable for use in environments exposed to chemicals and harsh weather?

A2: Yes, TBPM G-40 is highly resistant to chemical attacks and adverse weather conditions, making it suitable for use in challenging environments like marine constructions and industrial sites.

Q3: Can TBPM G-40 replace traditional steel reinforcement in concrete applications?

A3: While TBPM G-40 can significantly enhance concrete properties and reduce the need for traditional reinforcement, it is recommended to assess specific engineering requirements to determine its suitability as a complete replacement in structural applications.

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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