

Twisted Bundle PP Fiber (TBPM B-50)

Product Description

Fiberego's TBPM B-50 is a 50mm twisted bundle polypropylene fiber designed to enhance the performance and durability of concrete. This advanced fiber reinforcement system is engineered to provide significant improvements in toughness, crack resistance, and load-bearing capacity for concrete structures, making it an excellent choice for critical and high-performance applications.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	1.2mm
Length	50mm
Alkali&Acid Resistance	High
Tensile Strength	≥400MPa
Elastic Modulus	≥3.5GPa
Elongation	20 - 25%
Melting Point	160-170°C

Product Advantages

- **Enhanced Crack Resistance:** Significantly reduces the formation and propagation of cracks in concrete, extending the structure's lifespan.
- **Increased Load Capacity:** Improves the load-bearing capabilities of concrete, making it suitable for heavy-duty applications.
- **Superior Durability:** Enhances concrete's resistance to environmental and mechanical stress, increasing its durability.
- **Optimal Dispersion:** Unique twisted design ensures optimal dispersion within the concrete mix, providing uniform reinforcement.
- **Reduced Construction Costs:** Minimizes the need for traditional steel reinforcement, thus reducing overall construction costs.
- **Environmental Resistance:** Offers excellent resistance to chemical degradation and moisture, preserving the integrity of concrete.
- **Easy Integration:** Engineered for ease of use, it mixes well with concrete without clumping, ensuring hassle-free application.

Applications

1. Industrial flooring
2. Bridge construction
3. Road pavements
4. Airport runways
5. Seismic retrofitting
6. Marine construction
7. Retaining walls
8. Water treatment facilities
9. Precast concrete elements
10. Residential slabs
11. Parking structures
12. Sports arenas
13. Commercial foundations
14. Tunnel linings
15. Decorative concrete

FAQs

Q1: What makes TBPM B-50 ideal for high-impact areas like airport runways?

A1: TBPM B-50's high tensile strength and crack resistance make it exceptionally suited for airport runways and other high-impact areas where durability and strength are paramount.

Q2: Can TBPM B-50 be used in place of steel fibers?

A2: Yes, TBPM B-50 can replace steel fibers in many concrete applications, providing equivalent or enhanced performance benefits such as improved toughness and reduced corrosion risk.

Q3: How does the environmental resistance of TBPM B-50 benefit marine construction projects?

A3: The chemical and moisture resistance of TBPM B-50 makes it suitable for marine environments, protecting concrete against the harsh conditions typically found in such settings and ensuring long-term durability.

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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