TECHNICAL DATA SHEET

FLOREY® Concrete Engineering Fiber

Ultra-high Molecular Weight Polyethylene Fiber

Fiber for Concrete and Mortar Reinforcement

Supplier: Luoyang Florey Import and Export Co., Ltd.
Website: www.floreyconcrete.com

Product Description

Ultra-high molecular weight polyethylene fiber reinforced concrete is a new type of concrete material with broad application prospects.

Applications

1. Cement-based reinforcement: Enhances crack resistance of ECC, UHPC, concrete, and mortar; suitable for construction, municipal, and water conservancy projects.
2. Geosynthetic materials: Geotextiles and geogrids for embankment and slope reinforcement; suitable for transportation and municipal applications.
3. Waterproofing and wear-resistant components: Reinforcement for waterproof membranes and aggregate for wear-resistant floors; suitable for building and industrial flooring.
4. Marine / special projects: Offshore platforms and tunnel linings; suitable for marine and underground engineering.

Product Specification

Item	Specification
Fiber type	Monofilamentous
Single filament diameter	15±3 μm
Tensile strength	＞3000 MPa
Elastic modulus	≥35000 MPa

Guidelines for Use

• ECC (high-ductility concrete): 18–22 kg/m³, enhances crack resistance and ductility; commonly uses 6–19 mm short fibers.
• UHPC (ultra-high performance concrete): 20–25 kg/m³, suitable for ultra-high strength and wear resistance; commonly uses 12–19 mm short fibers.
• Ordinary concrete: 0.8–1.2 kg/m³, controls drying shrinkage cracks; commonly uses 6–12 mm short fibers.
• Plaster / masonry mortar: 0.6–0.9 kg/m³, improves crack resistance and impermeability; commonly uses 6–9 mm short fibers. Confirm fiber selection and dosage through project-specific mix trials.

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