TECHNICAL DATA SHEET

FLOREY® Polyester Staple Fiber

Polyester Staple Fiber

Fiber for Concrete and Mortar Reinforcement

Supplier: Luoyang Florey Import and Export Co., Ltd.

Website: www.floreyconcrete.com

Product Description

Polyester staple fibers are produced by cutting polyester filaments after cooling, drawing, and heat-setting, with lengths ranging from a few millimeters to over ten millimeters.

Applications

1. Concrete / mortar reinforcement: Controls plastic and drying shrinkage cracks, enhancing toughness.
2. Asphalt pavements / bridge deck surfacing: Increases toughness and crack resistance, improving rutting resistance and fatigue performance.
3. Geotextiles / geogrids: Used for embankment and slope reinforcement, providing impermeability, filtration, and aging resistance.
4. Waterproof membranes / insulation panels: Enhances impermeability, strength, and durability.

Product Specification

Item	Specification
Texture of material	Polyester
Tensile strength	≥500 MPa
Fiber diameter	10-25 μm
Elongation at break	≥15%

Guidelines for Use

• Ordinary concrete: 0.6–1.5 kg/m³, suitable for crack control and impermeability applications.
• Standard asphalt mixture: 2.0–2.5 kg/ton, meeting conventional road requirements.
• Highway asphalt (heavy traffic): 3.0–4.0 kg/ton, enhancing rutting resistance.
• Bridge deck wearing course asphalt: 3.5 kg/ton, improving fatigue resistance and crack control. Confirm fiber selection and dosage through project-specific mix trials.

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