TECHNICAL DATA SHEET

FLOREY® Concrete Engineering Fiber

Polypropylene Bundled Hinged Fiber

Fiber for Concrete and Mortar Reinforcement

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

Website: www.floreyconcrete.com

Product Description

Twisted polypropylene bundle fibre for concrete reinforcement.

Applications

1. Bridge engineering: Used in box girder and bridge deck concrete to improve crack resistance, fatigue resistance, and impact performance.
2. Industrial flooring: Incorporated into workshop and warehouse floor concrete to enhance wear resistance, heavy-load capacity, and shrinkage crack control.
3. Ports and docks: Added to quay yard and approach bridge concrete to improve chloride ion resistance and scour resistance.
4. Rail transit: Suitable for metro segmental linings and track bed concrete to ensure durability and impermeability.

Product Specification

Item	Specification
Fiber material	100% Polypropylene
Density	0.91g/cm³
Fiber type	Bundle like strangulation
Melting point	170℃
Tensile strength	≥450 MPa
Initial modulus	≥5000 MPa
Elongation at break	15%-30%

Guidelines for Use

• Ordinary / pumped concrete (C30–C50): Dosage 0.9–1.2 kg/m³; used in slabs, walls, and beams/columns to control plastic shrinkage and drying shrinkage cracks.
• Shotcrete (tunnel initial support / foundation pit): Dosage 1.2–1.8 kg/m³; reduces rebound, enhances impact resistance and impermeability, suitable for tunnels and slope support.
• High-strength / precast concrete (C60+): Dosage 1.0–1.5 kg/m³; improves crack resistance and toughness, suitable for segments, utility poles, and precast slabs. Confirm fiber selection and dosage through project-specific mix trials.

Henan Fuluorui New Materials Co., Ltd.
Luoyang Florey Import and Export Co.,Ltd
https://www.floreyconcrete.com
ROOM 01, BUILDING 8, JUNHE YUNGU, SOUTHEAST CORNER OF THE INTERSECTION OF GUANGWU AVENUE AND LANTAI ROAD, YIBIN DISTRICT, LUOYANG CITY, HENAN PROVINCE 471000 Tel: +86 0379-68883868 Fax: +86 0379-68883868
TEL: +86 13783184240 E-mail: lucylu@floreyconcrete.com