TECHNICAL DATA SHEET

# FLOREY® Concrete Engineering Fiber

## Polypropylene Imitation Steel Wire Fiber

Fiber for Concrete and Mortar Reinforcement

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

Website: www.floreyconcrete.com

## Product Description

Modified polypropylene fibre for concrete reinforcement.

## Applications

1. UHPC components: Used in UHPC precast slabs and segmental linings, replacing copper-coated steel fibers to improve crack resistance and toughness.
2. High-speed railway RPC components: Suitable for high-speed rail track slabs and RPC cover slabs, enhancing durability and fatigue resistance.
3. Bridge engineering: Incorporated into UHPC bridge deck pavements to improve impact resistance, impermeability, and extend service life.
4. Ports and docks: Used in breakwaters and yard UHPC to resist seawater corrosion and enhance load-bearing and scour resistance.

## Product Specification

| Item | Specification |
|---|---|
| Texture of material | Polypropylene |
| Elastic modulus | ≥3.5 GPa |
| Elongation at break | 15-30% |
| Tensile strength | ≥450 MPa |

## Guidelines for Use

• UHPC/RPC concrete: Dosage 4–6 kg/m³; replaces copper-coated steel fibers to improve crack resistance and toughness, suitable for precast components and bridge deck pavements.
• Shotcrete / thin-layer concrete: Dosage 3–5 kg/m³; used for tunnel initial support and thin-walled elements to reduce rebound and enhance impermeability and impact resistance.
• Heavy-duty industrial floor concrete: Dosage 3–4 kg/m³; suitable for heavy-load workshops and port yard slabs, improving wear resistance, crack control, and fatigue performance. Confirm fiber selection and dosage through project-specific mix trials.

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