TECHNICAL DATA SHEET

FLOREY® Polyvinyl Alcohol Fiber

Polyvinyl Alcohol Fiber

Fiber for Concrete and Mortar Reinforcement

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

Website: www.floreyconcrete.com

Product Description

Polyvinyl alcohol fiber is mainly used in ultra-high performance concrete and high ductility concrete.

Applications

1. General concrete structures: Added to ready-mixed and pumped concrete for building slabs, beams, columns, and walls to improve crack resistance and durability.
2. Cement mortar plastering: Incorporated into interior/exterior wall plaster and thermal insulation mortars to reduce hollowing, cracking, and debonding of plaster layers.
3. Tunnel shotcrete: Used in initial support for highway, railway, and metro tunnels to enhance bonding strength and reduce rebound loss.
4. Bridge engineering: Added to bridge deck pavements and crash barrier concrete to improve fatigue resistance and freeze–thaw durability.

Product Specification

Item	Specification
Texture of material	Polyvinyl alcohol(PVA)
Fiber diameter	10-15 μm
Elastic modulus	≥35 GPa
Elongation at break	2.0-8.0%
Tensile strength	≥1450 MPa
Dispersibility	Uniformly dispersed without merging or clumping
Fiber length (mm)	6–12
Acid and alkali resistance (retention, %)	≥95

Guidelines for Use

• General crack resistance (floors, walls, ordinary structural elements): 0.6–0.8 kg/m³
• High-strength crack resistance / impact resistance (bridges, tunnels, high-rise buildings): 0.9–1.2 kg/m³
• Mass concrete / high-stress structures (C35–C45): – Single PVA fiber addition: 1.0–1.5 kg/m³; Confirm fiber selection and dosage through project-specific mix trials.

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