Spiral Polyvinyl Alcohol (PVA) Fiber for Wind Power Foundations

High-strength synthetic fiber for crack resistance and durability in wind power concrete

Product Description

Spiral Polyvinyl Alcohol (PVA) Fiber is specially designed for wind power foundation concrete and large-scale civil works. Its spiral geometry enhances bonding with cement matrix and dispersion in fresh mixes. The fiber provides excellent crack resistance, shrinkage control, toughness, and long-term durability under harsh environments.

Key Features & Benefits

- Spiral shape improves fiber–matrix bonding and uniform dispersion.
- Enhances crack resistance, shrinkage control and impact toughness.
- Non-toxic, alkali-resistant, chemical-resistant and UV-resistant.
- Suitable for pumped concrete, precast elements and shotcrete applications.

Performance Parameters (GB/T 21120-2018)

Property	Technical Index
Tensile strength (MPa)	1650
Elongation at break (%)	≤ 15
Elastic modulus retention (%)	≥ 75
Density (g/cm³)	0.9

Product Usage

- Wind power foundation concrete for hybrid towers.
- Bridges, tunnels, airports, docks and reservoirs requiring crack resistance.
- Industrial flooring, precast components and shotcrete reinforcement.
- Dosage: 0.9–2.0 kg/m³; extend mixing time by 30–60 s for even dispersion.

Packaging & Storage

- 10 kg moisture-proof composite bags.
- Shelf life: 12 months in cool, dry, ventilated storage.
- Protect from moisture, sunlight and mechanical damage during storage and transport.

Disclaimer

The information in this Technical Data Sheet is based on laboratory tests and field applications, and is offered in good faith. Sino-sina Building Materials Co., Ltd. makes no warranty of results obtained under conditions beyond its control. Users should confirm product suitability through field trials before large-scale use.