

SANQI PP-1

VIRGIN MONOFILAMENT POLYPROPYLENE FIBER

The polypropylene fiber is made from 100% virgin polypropylene, and after special processes, it become the high tensile sarciniform monofilament organic fibers. It has stable chemical property, acid and alkali resistant and weak thermal conductivity. After adding the PP fiber into the concrete, it can effectively control the micro cracks caused by plastic shrinkage, dry shrinkage and temperature variation, greatly improve the anti-permeability, the impact resistance and the anti-seismic of the concrete.



★TECHNICAL PARAMETER

Material	100% polypropylene	Fiber type	Monofilament sarciniform
Density	0.91g/cm ³	Tensile strength	>400Mpa
Resistance to Acid Alkali	Excellent	Elastic Modulus	>3500Mpa
Melting point	>165°C	Equivalent Diameter	18-48μm
Safety	Good	Water Absorbency	No
Thermal conductivity	Low	Elongation at break	>18%
Cold resistance	Strong	Length	3mm,6mm,12mm,15mm,19mm

★FUNCTION AND FEATURES IN CONCRETE

- Preventing the appearance of the concrete micro cracks
- Improving the anti-permeability performance
- Improving the frost resistance performance
- Improving the impact resistance, anti-bending, anti-fatigue, anti-seismic.
- Improving the durability and ageing resistance
- Improving the fire resistance

★PACKAGE

- 0.9kg/bag or 1kg/small bag,25kg/big bag.

★SUGGESTED DOSAGE

- Common surface coated mortar:0.9kg-1.2kg/M³,usually 1kg/M³
- Thermal mortar:1kg-3kg/M³
- Concrete: 0.6kg-1.8kg/M³

★APPLICATION

- Concrete rigid waterproof structures: Basement floor, Wall surface, Roofing, Roof cast-in-place floor slab, Reservoir, The subway, The airport runway, seaport, The overpass bridge surface, and Bridge pier
- Cement mortar: Wall surface paint, Aerated concrete and plaster, Thermal mortar
- Anti-explosion, fire resistance projects: Military project, Oil platform, Chimney, Refractory material
- Shotcrete: Tunnel, Culvert liner, Thin-wall construction, Consolidation of slope

★CONSTRUCTION CRAFT

- According to the concrete cubic meter, exactly calculating the weight of fibers added
- After preparing well the building stones, adding the fibers. Advising to use the forced mixer. Adding the basic material and fiber in the mixer simultaneously, then dry mixing about 30seconds,then web-mixing about 30 seconds, making the fibers fully dispersed
- After mixing, randomly take some concrete, if the fibers are evenly dispersed, then the concrete can be used, if there is still sarciniform fibers, then the stirring time should be extended 20-30seconds.
- The maintenance processes of concrete mixed fibers is the same with the common concrete

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