SANQI PVA-3

POLYVINYL ALCOHOL FIBER

The high strength and modulus PVA fiber mainly is made of polyvinyl alcohol with the processes of dissolution, spinning, thermoforming, cutting and packing, the PVA can easily and rapidly be mixed into concrete and mortar, and because of its micro appearance and large specific surface area, there is about 30-40 fibers in each cubic centimeters, so it can build the disorderly distributional supporting system, effectively controlling the micro crack caused by the plastic shrinkage and dry shrinkage, effectively preventing the separation of the aggregate, preventing the formation of the sedimentation cracks, greatly improving the anti-permeability and the impact resistance of concrete, greatly improving the toughness and wear resistance, and can taking place of the secondary reinforcement rebar in the concrete.

★TECHNICAL PARAMETER

Material	Polyvinyl Alcohol	Color	Light yellow
Density	1.29g/cm³	Diameter	2.0+/-0.25dtex
Tensile Strength	≥1800Mpa	Modulus	≥49Gpa
Hot water resistance	≥104℃	Elongation at break	7.5% max.
Melting point	≥213℃	Safety	Non-poisonous
Length	4mm,6mm,8mm,10mm,12mm,16mm,20mm	Formula	(CH2CHOH)n

★FUNCTION AND FEATURES IN CONCRETE

- Acid and alkali resistance, under long-time high temperature, the strength loss less than other fibers
- Light resistance: under long time sunlight, the strength loss less than other fibers
- Anti-corrosion: the fibers is buried underground for long time, no appearance of mildew, decay and worm-eaten
- Good dispersibility: fibers no gobbet, good dispersibility in water.
- The good performance of anti-crack and anti-permeability: fibers are disorderly distributed in the concrete and mortar, effectively preventing the appearance of the micro crack
- Impact resistance and anti-seismic: effectively absorbing impact energy, improving impact

resistance

- Frost resistance and anti-fatigue: relieving the stress effect caused by temperature difference, improving anti-fatigue
- Wear-resistant: reducing the dusting, spalling and weathering of concrete pavement
- Increasing the toughness: reducing the concrete brittleness, improving the anti-bending.

★PACKAGE

- 0.9kg or 1kg/small plastic bag, then 25kg/big woven bag
- 200kg/big woven bag
- Making the packing according to the customer request.

★SUGGESTED DOSAGE

- Wearing-resistant concrete: the advised dosage 2.5kg/m3
- Common anti-permeability concrete: the advised dosage 1.2-1.5kg/m3
- Mortar hang ash: the advised dosage 0.6-0.9kg/m3

★APPLICATION

- Taking place of asbestos, making the high tensile cement products
- Applied in road construction, especially the high grade road construction.
- Hydraulic engineering construction, taking place of steel rebar as bar strip
- Making lightweight wall plate, insulation board and other building material
- Concrete structure component, concrete pipe fitting, concrete sheets
- Mass concrete pouring, such as wharf, building transfer beam and so on.
- As shotcrete applied in tunnel, mine, culvert, side slope and so on.

★CONSTRUCTION CRAFTS

- 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