

New Binding Fiber C

New Binding Fiber C is super fiber to have ability of natural spontaneous cure for cracking of cement materials, such as concrete.

In general, cracking of cement materials are caused by strong stress, change of dry temperature, and change of cubic volume due to dry condition.

This cracking causes not only damaging good appearance of cement but also lots of problems, such as leaking water from cracking part, decreasing section by corrosion of inside reinforcing steel bar, and less durability of structure.

By using New Binding Fiber C as fiber composite of FRCC (Fiber Reinforced Cementitious Composites), calcium carbonate that is raw material of cement can be easily deposited to close cracking parts. It is a solution for cracking in the future.

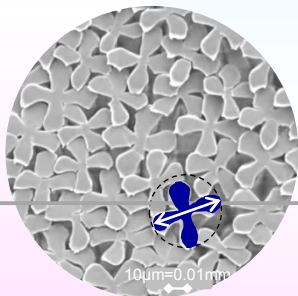
Featuring;

1. No corrosion, gentle to environment because it is Polypropylene fiber
2. Super light and easy handling
3. Depositing calcium carbonate that is main material of cement easily because of unique cross section and technology of surface reformulation on fiber

Effect:

1. Not required maintenance for cracking parts
2. Possible effect; Avoiding steam explosion (Building and tunnel Fire)

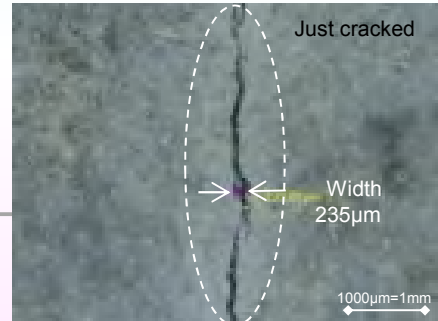
Cross Section Fiber



Diameter Fiber
24.4 μ m

10 μ m=0.01mm

Surface Cement



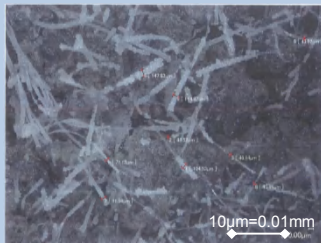
Just cracked

Width
235 μ m

1000 μ m=1mm

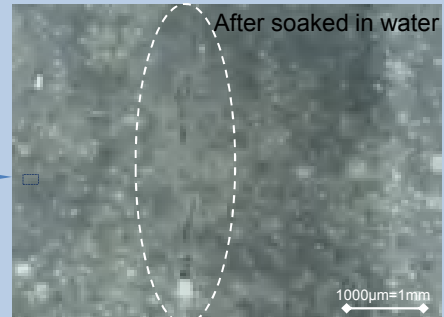
Side

After soaked in water



Depositing CaCO₃ surface on fiber

10 μ m=0.01mm



After soaked in water

1000 μ m=1mm

(6h Soaked in water → 42h Dry) x 7 times