ABSTRACT OF THE DISCLOSURE

Fiber reinforced concrete is generated by including fiber in a dispersed manner in a cement matrix including: cement; first pozzolanic reactant particles having a high activity; second pozzolanic reactant particles having an activity lower than the first pozzolanic reactant particles; first aggregate particles having a maximum particle diameter smaller than or equal to 2.5 mm, a mean particle diameter within a range of 0.4 mm to 0.8 mm and a fineness modulus within a range of 1.5 to 3.5; second aggregate particles having a maximum particle diameter smaller than or equal to 0.425 mm, a mean particle diameter within a range of 0.1 mm to 0.3 mm and a fineness modulus within a range of 0.4 to 0.8; at least one type of plasticizer; and water.

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