

A B S T R A C T

A filling material for a reinforcing joint and a construction method of filling a reinforcing joint by using such a material provide an excellent retention of fluidity, an appropriate rate of change of length and a high strength. A filling material for a reinforcing joint containing cement, an expansive additive, pozzolana fine powder, a water reducing agent and fine aggregate is characterized in that the expansive additive is a calcium aluminoferrite based expansive additive and the pozzolana fine powder is siliceous fine powder with a silicon dioxide (SiO_2) of not less than 90% and a hydrogen ion concentration found in an acid region, while the water reducing agent is a polycarboxylic acid based water reducing agent. The calcium aluminoferrite based expansive additive preferably shows a Blaine's specific surface area between 2,000 and 6,000 cm^2/g . The fine aggregate is preferably heavy weight aggregate with a density of not less than 3.0 g/cm^3 .