



New Era of concrete : Reactive Powder Concrete

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Reactive Powder Concrete (RPC) is a high strength, new generation concrete, formed from a special combination of constituent materials. The composition of reactive powder concrete includes cement (ordinary Portland cement), fine sand, silica fume, quartz powder, and high tensile steel fibres. Reactive powder concrete is grouped under ultra-high performance concrete. This concrete has a very high compressive strength of 200 Mpa which can be improved further by introducing steel fiber up to 800MPa. This new family of concrete has improved ductile behaviour with a flexural strength of 25MPa to 40MPa Kaolin does not have many cementations properties by itself, but in the presence of water, it reacts with free lime either from cement or from any other source forming higher order hydrated products, which not only enhance strength but also improve durability. In this book, analysis of the various study conducted on RPC incorporated with various factors has been carried out. 100 pp. English.



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