

عنوان مقاله:

Compressive strength behavior of reactive powdered concrete reinforced with steel fibers

محل انتشار:

ششمین کنفرانس بین المللی مکانیک، ساخت، صنایع و مهندسی عمران (سال: 1399)

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خلاصه مقاله:

Reactive powder concretes are characterized by high silica vapor content and very low water to cement ratio. Many studies have been performed and finalized on reactive powder concretes. In this study, some of these previous studies and the results of each, have been reviewed. Then, the results were evaluated and compared by laboratory study of the compressive strength behavior of reactive powdered concrete reinforced with steel fibers and microsilica at the ages of 7 and 28 days. The results show that by the age of 7 days, all mixing designs, except design number 4, have shown less resistance than design number 1, which was made without fibers. Good performance and incremental resistance are obtained for fibrous specimens at 28 days of age. By adding more and more steel fibers up .to 4% to reactive powder concrete at the age of 28 days, we will see higher strength

كلمات كليدى:

Reactive powder concretes, Steel Fibers, Fiber concrete, Compressive strength, Microsilica

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