

عنوان مقاله:

Evaluation of the effect of steel fibers on the compressive strength of reactive powdered concrete with available materials

محل انتشار:

ششمین کنفرانس بین المللی پژوهش در علوم و مهندسی و سومین کنگره بین المللی عمران، معماری و شهرسازی آسیا (سال: 1400)

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خلاصه مقاله:

Powdered concrete is a material that can compete with high-performance concrete and steel. Depending on the properties and cost, this concrete can replace steel in many cases, which is currently being studied in many countries. In this study, using steel fibers, its effect on the compressive strength of reactive powder concretes at the ages of 7, 28 and 90 days, and its results with the control sample (without fibers) have been investigated. A compressive strength test was performed on concrete mixing designs containing 1, 5, 7.5 and 10 kg/m³ of steel fibers, which were combined following the regulations of the mixing design. The results show that the sample containing 7.5 kg/m³ of concrete fibers at 7, 28 and 90 days of age has more compressive strength than the control samples containing 1, 5 and 10 kg/m³ fiber.

کلمات کلیدی:

Concrete, Compressive Strength, Reactive powder concrete, Steel-Fibers

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