

عنوان مقاله:

Experimental Investigation about the effect of Various Type Fibers on the Mechanical Properties of concrete

محل انتشار:

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خلاصه مقاله:

This paper presents the results of an experimental program about effect of addition of some type of fibers such as steel, UK Shogun and PP on the mechanical properties of concrete specimens. Various tests has been conducted such as flexural strength, flexural toughness, splitting tensile strength and splitting tensile toughness and then about 6 specimens was produced in the laboratory. The tests were carried out based on ASTM-C1018 and ASTM-C1116 code recommendations. The result of splitting test indicates that steel fiber was more effective. Flexural bending test of specimens has proved that pp fibered specimens were less effective than to other specimens. Comparative energy dissipation diagrams of specimens indicate that at the first steps of displacement, steel fiber was more effective, but with spending of test process, the UK Shogun fiber specimens and then PP fiber was more effective

کلمات کلیدی:

Fiber concrete, energy absorption, compressive strength, flexural strength

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