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Original scientific paper

High performance concrete with steel slag aggregate

Maruthachalam Verapathran
P. Murthi

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page 605-612

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Abstract

The effect of the steel slag aggregate aging on mechanical properties of the high performance concrete is analysed in the paper. The effect of different aging periods of steel slag aggregate on mechanical properties of high performance concrete is studied. It was observed that properties of this concrete are affected by the steel slag aggregate aging process. The compressive strength increases with an increase in the aging period of steel slag aggregate. The flexural strength, Young's modulus, and impact strength of concrete, increase at the rate similar to that of the compressive strength. The workability and the abrasion loss of concrete decrease with an increase of the steel slag aggregate aging period.

Keywords

high performance concrete; steel slag aggregate; abrasion; aging period; impact strength; mechanical properties

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