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Influences of fine waste foundry sand from the automobile engine-part casting process and water-cementitious ratio on the properties of concrete: A new approach to use of a partial cement replacement material

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Abstract

This research was conducted to study the utilization of fine waste foundry sand (FWFS) produced by the automobile engine-part casting process as a partial cement replacement material in the production of concrete. The tested contents of cementitious material (ordinary (Type I) Portland cement (OPC) plus FWFS) were 350 and 450 kg/m³, the tested water-cementitious material ratios (w/c) were

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