

Some Properties of No-Fines Polymer Concrete

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This research includes the study of the properties of No-fines concrete using 10-mm maximum size of aggregates and improved by SBR polymer. The concrete mixes by weight were (1:5) , (1:6) and (1:7) (cement : aggregate) respectively .The polymer was added as percentages of cement weight and were 5% , 7.5% and 10%. Reference mixes were made for every case. The density of concrete varied between 2030 and 2170. kg/m³, and the thermal conductivity of this concrete was in range recommended by the ACI 213-87 committee for the structural lightweight concrete