

عنوان مقاله:

Effects of Aggregate Size on SCC under Cyclic Loading

محل انتشار:

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نویسندگان:

Hooshang Dabbagh - *Civil Engineering department, University of Kordistan, Sanandaj, Kurdistan, Iran*

Hamoon Fathi - *M.Sc. in Structural Engineering, Sady, Sanandaj, Kurdistan, Iran*

خلاصه مقاله:

The aggregate size has a direct effect on the density, strength, workability and voids. In SCC both the super plasticizer and the aggregate tend to reduce the thixotropic behavior. This experimental investigation, studies the effects of aggregates size on SCC under compressive cyclic loading. The specimens were made on 90 cylinder shape. SCC concrete mixes are categorizing in 9 groups. At the age of 28 days, SCC specimens were tested for compressive strength and stress-strain under monotonic and cyclic loading. Aggregate ratios (ratio of gravel to sand) have special effects on SCC properties. The results show that: Compressive strength of SCC will increase by decreased maximum size of aggregates. Ductility of SCC samples increase by increased sand value. When the largest size of aggregate becomes smaller, the toughness of SCC samples decrease

کلمات کلیدی:

Aggregate size, cyclic loading, stress-strain relation

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