

عنوان مقاله:

Impact of Sulfur Replacement ratio on Mechanical Behavior of Sulfur Polymer Concrete based on Available Material Resources in Azarbaijan

محل انتشار:

دومین کنفرانس بین المللی مقاوم سازی لرزه ای (سال: 1388)

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خلاصه مقاله:

This study has focused on evaluating the unit weight, compressive strength and modulus of elasticity of Sulfur Polymer Concrete (SPC) with different Sulfur Replacement Ratio (SRR). SPC at this study was manufactured using some recycled waste materials such as elementary Sulfur (by-product from Tabriz petroleum refinery), local gravel and sand. For determining optimum mix design, different mix design was produced by authors at lab with 10%, 20%, 25%, 30%, 35% and 40% of SRR with 5% and 20% of silty filler. Variation of unit weight, compressive strength and modulus of elasticity at different SRR was investigated and then compared with regular Portland Cement Concrete (PCC) that was made by the authors with same aggregate

کلمات کلیدی:

Sulfur polymer concrete, Sulfur replacement ratio, compressive strength, modulus of elasticity

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