

عنوان مقاله:

Investigation of the key parameters on the strength of soil - cement

محل انتشار:

دومین کنفرانس بین المللی افق های نو در علوم مهندسی (سال: 1397)

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خلاصه مقاله:

Soil-cement is a mixture of Portland cement, soil and water, which are bonded together due to the cement hydration and compaction, and have durability, low permeability, and resistance against wear. Water to cement ratio, cement content and type have been commonly investigated as the most effective factors on the compressive strength of soil-cement. This study aims at the investigation of the effects of some other factors, such as sand equivalent (SE), plasticity index (PI), and gradation of the soil on the compressive and flexural strength of soil-cement. Results show that the compressive and flexural strength of soil-cement increases with increasing the sand equivalent and decreasing the plasticity index of the soil.

کلمات کلیدی:

soil-cement, compressive strength, flexural strength, plasticity index

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