عنوان مقاله:

Experimental investigation of the effective factors on the unconfined compressive strength of soil-cement materials

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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 gradation of the soil on the compressive strength of soil-cement. Results show that the compressive strength of soil-cement increases with increasing the sand and decreasing the clay of the soil.

کلمات کلیدی:

soil-cement, compressive strength, sand, clay, gradation