

عنوان مقاله:

Experimental Investigation of Compressive Strength and Infiltration Rate of Pervious Concrete by Fully Reduction of Sand

محل انتشار:

ژورنال مهندسی عمران, دوره 4, شماره 4 (سال: 1397)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Aneel Manan - Swedish College of Engineering and Technology, Wah Cantt, Pakistan

Mushtaq Ahmadi - Department of Civil Engineering, Tenaga Nasional Universiti Malaysia, Kajang Campus, Malaysia

Fawad Ahmad - Department of Civil Engineering, Iqra National University Peshawer, Pakistan

Abdul Basit - Swedish College of Engineering and Technology, Wah Cantt, Pakistan

خلاصه مقاله:

The aim of the study is to investigate compressive strength of pervious concrete by reduction of fine aggregate from zeroto 100%, additionally investigate infiltration rate of pervious concrete. Experimental study has conducted at CecosEngineering University Peshawar. The pervious concrete samples were produced for 7 and 28 days. Compressive strength of pervious concrete indicated higher reduction of the sand reduces compressive strength and almost 50% compressivestrength decreased by reduction of 100% sand from the design mix. On the other side, infiltration rate for 28 days showsdirect relation above 40% reduction of sand and highest 273% of infiltration rate by reducing 100% sand from the designmix. The 90% reduction of sand from concrete give considerable compressive strength of 2150 psi and infiltration rate of165.79 inch/hour, which can be recommended for pavements of parking and .walking area

کلمات کلیدی:

Pervious Concrete; Fine Aggregate Reduction; Compressive Strength; Infiltration Rate

لینک ثابت مقاله در پایگاه سیویلیکا:



