ABSTRACT

The impact of water cement magnitude relation on hardened properties of cement mortar with partial replacement of natural sand by factory-made sand is investigated. Designed mortar combine having proportion as 1:2, 1:3 and 1:6 with water cement magnitude relation of zero.5 and 0.55 severally is used in experimental study. Mortar cube specimens are tested for analysis of compressive strength. The mortar exhibits glorious strength with five hundredth replacement of natural sand by manufactured sand. This paper puts forward the applications of factory-made sand as Associate in nursing attempt towards property development. It’ll facilitate to search out viable resolution to the declining availability of natural sand to form eco-balance.

Keywords: factory-made sand, natural sand, cement, mortar.