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The effects of fly ash and polystyrene bead additions on compressive strength of foamed cement composites

Abstract

The effects of both additions of fly ash and polystyrene (PS) beads were studied on compressive strength of foamed cement composites. The increasing amount of fly ash addition up to 6 wt. % has been found to increase the compressive strength of the foamed cement composites. It was found that fly ash has a potential as sand replacement materials in cement composites. The addition of 0.1 wt.% PS beads produced higher values of compressive strength after 14 days and 28 curing days respectively.

Keywords

Compressive strength; Fly ash; Foamed cement composites; Polystyrene beads