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Behaviour of Brick Masonry by using Cement Lime Mortar with Chemical Admixture

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Abstract : Cement mortar is normally used as a binding material in masonry units. Mortar is an essential material for making bond between brick units. This paper is focused on evaluation of basic properties in masonry units by applying cement lime mortar with superplasticizer and to compare with conventional mortar. Two types of bricks such as clay and fly ash bricks were used. Two types of ingredients like that cement lime mortar and mortar with superplasticizer were prepared with three mix proportions. Tensile bond strength was determined by testing brick couplets, shear bond strength was determined by testing bricks triplets and flexural strength carried out by testing stack bonded prism. When using chemical admixtures in mortar bond, strength properties are improved than conventional mortar.

Key words : cement lime mortar, superplasticizer, triplet, couplet, tensile bond strength, shear bond strength.

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