

INVESTIGATION OF MECHANICAL PROPERTIES OF MORTARS MADE OF CLASSLESS AFSIN-ELBISTAN FLY ASH AND GLASS POWDERS

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ABSTRACT

This study aims at evaluating the classless Afşin-Elbistan fly ash. Therefore, Classless Afsin-Elbistan fly ash and waste granulated glass have been mixed at certain rates. This mixture has produced mortar samples by substituting with different percentages instead of cement. 3-7-28 daily bending strengths, setting durations, volume expansion experiments of the samples produced have been made. As a result of study, it has been determined that as the contribution of fly ash and granulated glass increases, the setting durations increase. Besides, ash can be obtained in accordance with the standards by the use of 30% of the mixture of fly ash and granulated glass. It has been founded that many properties of the mortars produced are higher than the values to be obtained from the class ashes

Keywords: Fly Ash, Granulated Glass, Setting Duration, Strength.