

Mechanical Properties of Geo-Polymer Concrete by using Water Glass Solution

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Abstract: *The environmental concerns related to the production of cement in terms of the energy consumption and the emission of CO₂ lead to the search for more environmentally viable alternatives to the cement. One of those alternative materials is Fly ash and GGBS Where Fly ash (FA) and Ground Granulated Blast Furnace Slag (GGBS) is used not as a partial replacement to cement but as the sole binder in the production of concrete. The performance of fly ash and GGBS based materials with sodium silicate (water glass) as an activator was studied*

Keywords: water glass solution, GGBS, Fly ash, compressive strength

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