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DURABILITY CHARACTERISTICS OF BIOPOLYURETHANE MODIFIED CONCRETE

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ABSTRACT: Concrete was considered to be a very durable material with little or no maintenance, except when it is exposed to highly aggressive environments. Durability of cement concrete is defined as its ability to resist weathering action, chemical attack, abrasion or any other process of deterioration. Polymers are added during the process of mixing the concrete to modify the properties of hardened concrete, to improve durability and resistance to aggressing fluids. Biopolyurethane in the powder form was used as a polymer in the concrete. 2.5% and 5% Biopolyurethane was added to the concrete during mixing. Durability characteristics of this polymer modified concrete were assessed through conducting few durability tests at 28 days and 90 days.

Keywords: *Polymer Modified Concrete, Biopolyurethane*