

Experimental Study on the Characteristics of Polymer Concrete With Epoxy Resin

Author(s): Marinela Bărbuță • Maria Harja Ioniță

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Abstract text:

In the paper are presented the results of some experimental researches concerning polymer mortars and concretes realized of epoxy resin, silica fume and crushed aggregates. The mechanical characteristics of hardened concrete were determined. The silica fume content varied between 6.5% and 30% to polymer mortar and 6.4% and 9.6% to polymer concrete. The obtained results show maximum characteristics for a dosage of 24% resin and maximum dosage of silica fume to the polymer mortar, and for the polymer concrete the mechanical characteristics are influenced by all mixture factors: the compressive strength increases with the increase of silica fume dosage, and the flexure strength and split strength increase with the decreasing of silica fume dosage.

Key Words:

Epoxy Resin; Silica Fume; Polymer Mortar; Polymer Concrete.

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Author(s) Information

Marinela Bărbuță

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Concrete, Materials, Technology and Management.

Email: barbuta31bmc@yahoo.com

Maria Harja Ioniță

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Chemical Engineering

Email: -

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