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Experimental Study on Self-Compacting Concrete with Foundry Sand and Glass Powder

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Abstract: This paper explores an experimental study on self compacting concrete with Foundry sand and glass powder. Environmental pollution a major problem faced by mankind, mainly in the construction industry the production of Portland cement causes the emission of pollutants that causes serious threat to the environment. The pollution effects on environment due to cement production can be reduced by increasing the usage of waste products in our construction industry. Usage of Foundry sand and glass powder is such a remedial measure and in the present study, sand and cement is being replaced with Foundry sand and Glass powder. Viscocrete 20 HE preferred for admixture. The percentage replacement of glass powder with cement includes 10 percent, 20 percent, 30 percent, 40 percent, 50 percent. The fine aggregate is 90 percent of sand and 10 percent of foundry sand. The Mix design for SCC was arrived as per the guidelines of EFNARC. The mix design and the tests to be conducted like material testing, strength tests are being discussed in this paper.

Keywords: Self- Compacting Concrete, Glass Powder, Foundry Sand.

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