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Evaluation of Strength Studies on Self Compacting Concrete by using Foundry Sand and Hybrid Fibres

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Abstract: Self-compacting concrete (SCC) can be defined as a fresh concrete which possesses superior flow ability under maintained stability (i.e. no segregation) thus allowing self-compaction that is, material consolidation without addition of energy. Self-compacting concrete is a fluid mixture suitable for placing in structures with congested reinforcement without vibration and it helps in achieving higher quality of surface finishes the relative proportions of key. Percentage weight of total coarse aggregate. The properties of different constituent materials used in this investigation and its standard tests procedures for acceptance characteristics of self-compacting concrete.

Growth and development of SCC is really a desirable achievement within the construction industry to be able to overcome problems connected with cast-in-place concrete. SCC describes a concrete having the ability to compact itself only by way of its own weight without the advantage of vibration. SCC may lead to some significant improvement of the standard of concrete structures and open new fields for the use of concrete. Self-compacting concrete is placed or poured in the same way as ordinary concrete but without vibration. It is very fluid and can pass around obstructions and fill all the nooks and corners without the risk of either mortar or other ingredients of concrete separating out, at the same time there are no entrapped air or rock pockets. Concrete that segregates loses strength and results in honeycombed areas next to the formwork.

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