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(54) Title of the invention : INFLUENCE OF GROUND-GRANULATED BLAST-FURNACE SLAG ON THE STRUCTURAL PERFORMANCE OF SELF-COMPACTING CONCRETE

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(57) Abstract :

The objective of this work is to study the influence that the incorporation of metallurgical residues has on the properties in the fresh and hardened state of Self-Compacting Concrete (SCC). To this end, several batches have been made, partially replacing the natural fine aggregate with granulated blast furnace slag (GBFS) in proportions of 10 - 60%. The results obtained show the possibility of manufacturing SCC with large replacement of fine natural aggregate by granulated blast furnace slag without altering the rheology and properties in the hardened state. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6]

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