
A Study on Low Carbon High Strength Concrete Mixed Fly Ash with B-Type Blast-Furnace Cement

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In order to realize low-carbon high strength concrete for general use, concrete properties such as compressive strength and durability of high strength concrete by replacing BB with 20% FA were examined. As a result, in the core specimen and insulate-treated specimen, the increase in strength from 28 to 91 days tended to be smaller than that of the standard treatment. These findings indicate the importance of obtaining the thermal expansion coefficient of the coarse aggregate to be used beforehand, when using BB for the binder, as well as the importance of compounding design that takes into consideration the stagnation of strength enhancement.