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Strength and Analysis of Basalt Fibre in Concrete

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Abstract : This experiment study aimed to investigate the compressive, flexural, and split tensile strength of basalt fibre reinforced concrete. Concrete had a good future and is unlikely to get replaced by any other material on account of its ease to produce, infinite variability, uniformity, durability and economy with using of basalt fiber in high strength of concrete. Basalt fiber offers more characteristics such as light weight, good fire resistance and strength. The main aim of this investigation is to study the effect of different proportion of basalt fiber in the mix. In this study trial test for concrete with basalt fiber and without basalt fiber are conducted to show the difference in compressive strength and flexural strength by using cubes, cylinders and concrete beams of grade M25. This paper provides data of fiber reinforced concrete containing fibers of 12mm length of various percentage by weight of cement.

Keywords : Basalt fiber, compressive strength, Flexural strength, Split tensile strength, Fiber reinforced concrete

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