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INFLUENCE OF STEEL FIBERS ON THE PROPERTIES OF CONCRETE: A REVIEW

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ABSTRACT

Fibers are effective in reducing plastic and shrinkage cracking. Steel in the form of short discrete fibers are added to concrete such that they are uniformly distributed and randomly oriented. Steel fibers do not significantly alter free shrinkage of concrete, but at high enough dosages they can increase the resistance to cracking and can reduce the crack widths. In this paper, the influences of steel fibers on the various properties of concrete are discussed based on the previous studies conducted.

KEYWORDS: Fiber Reinforced Concrete (FRC), High Strength Concrete, Steel Fibers