

An Experimental Study on Light Emitting Concrete

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Abstract: *The study of light emitting concrete which has the property of transmitting light from concrete by using optical fibers. Since years concrete has a low impression because of its dirty greyish color, opaqueness and sharp edge but this concept has been changed after the development of light emitting concrete, which gives the increased strength, better looks and light transmitting features. Plastic optical fibers are used because of its total internal reflection as its working principle as it gives maximum efficiency in transmitting light. The percentages of optical fiber added in this experimental study are 3%, 4%, 5%. This paper gives the structure a good aesthetic look without loss of strength parameters and serves as aeeco-friendly building material and is also a energy efficient which reduces energy consumption by 30% by allowing the natural light by transmitting light through optical fibers and will also have a good scope in future. This experiment will be a series of initiatives to look closely at new and emerging advanced construction in future*

Keywords: Light Emitting Concrete, Optical fiber, Compressive Strength