

عنوان مقاله:

An overview of fiber concrete and its application

محل انتشار:

اولین کنفرانس فرصت ها و چالش های مهندسی استان البرز (سال: 1397)

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خلاصه مقاله:

The production of concrete with the famous name of excellent concrete has begun since last year and continues. Due to the resistance of concrete lowest proportion of cost and availability of raw material, it is the most used material in the construction industry considered. One of these advanced concrete is fiber concrete. For its special advantages, it can be used with wide application at the level of the major construction projects of the country, but it is necessary to use this technology in Iran and use its many advantages. Engineers and all specialists specializing in construction, familiarity with this type of concrete and its widespread use. If it is really used, the fiber core in industrial countries is not known to use this new technology in our country. This article will attempt to introduce this technology and its benefits. Add fiber to concrete is to increase ductility, energy absorption and resistance to bending and shear cracking. But the main function of fibers in concrete is to transfer stress between two cracks surfaces. Adding fibers to the concrete causing cracks in the sample and this has been changing the pattern of distribution of cracks and instead of local disruption in the concrete; the cracks are distrusted in all over the sample. This effect causes high security .border in design

کلمات کلیدی:

Fiber concrete, Concrete Structures, Tensile, FRP

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