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USE OF HORSE HAIR AS FIBER REINFORCEMENT IN CONCRETE



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Abstract

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Fiber reinforced concrete can offer a convenient, practical and economical method for overcome micro-cracks and similar type of deficiencies. Since concrete is weak in tension hence some measures must be adopted to overcome this deficiency. Horse hair has less tensile strength than human hair. It can be used as a fiber reinforcement material and has a main advantage that it is heat resistant. Horse-Hair Fiber (HHF) an alternate non-degradable matter is available in abundance and at a very cheap cost. It also creates environmental problem for its decompositions. Present studies has been undertaken to study the effect of horse hair on plain cement concrete on the basis of its compressive, crushing, flexural strength, cracking control and heat resistant to economize concrete and to reduce environmental problems. Experiments were conducted on concrete beams and cubes with various percentages of horse hair fiber i.e. 0%, 1%,and 2%,by weight of cement. For each combination of proportions of concrete one beam and three cubes are

tested for their mechanical properties. By testing of cubes and beams we found that there is an increment in the various properties and strength of concrete by the addition of horse hair as fiber reinforcement and were tested for heat resistance.

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