International Journal of ChemTech Research
CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.8, pp 199-210, 2017

"Review Article on Assets of Carbon Fiber Reinforced Polymers"

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Abstract : Carbon fibers were the most attractive fibers to researchers, engineers and scientists as an alternative reinforcement for fibre reinforced polymer (FRP) composites[4]. Due to their high stiffness, high tensile strength, low weight, high chemical resistance, high temperature tolerance and low thermal expansion. Reinforced concrete columns have an important function in the structural concept of many structures. Often these columns are helpless to loads due to impact, explosion or seismic loads and also sensitive to corrosion of steel reinforcement. Confinement has proven to be very efficient in increasing concrete strength and ductility of members. Wrapping by means of FRP reinforcement enhances the structural behavior of concrete column considerably. This paper is a review on the properties of carbon fiber reinforced polymer composites and a detailed study had been made with the available literature on the usage of FRP composites in the strengthening of reinforced concrete columns.
Keywords : Mechanical properties, Thermal properties Carbon Fiber Reinforced Polymers (CFRP).

R.Anuradha *et al* /International Journal of ChemTech Research**,** 2017,10(8): 199-210.

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