

Critical Investigations on Shear and Flexural Behaviour of RCC Beam Retrofitted with Various Fibre Reinforced Polymer (FRP) Composites

Sureshkumar Narayanan¹, J. Kakkan², K. N. Keerthivasan³, M. Logesh Baabu⁴,
J. Mohamed Yasir⁵

Associate Professor, Department of Civil Engineering¹
UG Students, Department of Civil Engineering^{2,3,4,5}

Anjalai Ammal Mahalingam Engineering College, Kovilvenni, Thiruvavur, Tamilnadu, India

Abstract: *Experimental investigations on retrofitting of RC beams over the past thirty-five years using FRP techniques have been clearly developed the potential use of different fibre reinforced polymer fabric for improving the flexural strength, toughness index and shear strength of reinforced cement concrete beams. In recent years among the different techniques of rehabilitation of existing structures, Basalt Fibre Reinforced Polymer (BFRP) as an external bonding has been considered as a popular one. This review paper is mainly to used on several features of RC retrofitted concrete beams such as strengthening of concrete beams by suitable retrofitting techniques, to extend the fatigue life of the structural element and eliminates the crack growth rate.*

Keywords: Retrofitting-Fibre reinforced polymer (FRP) -Adhesives-Failure mode- Flexural and shear behaviour

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