

High-quality and expedient repair methods are necessary to address concrete deterioration that can occur in bridge structures. Most infrastructure-related applications of fiber-reinforced plastics (FRPs) use hand layup methods. Hand layup is tedious, labor-intensive and results are sensitive to personnel skill level. An alternative method of FRP application is vacuum assisted resin transfer molding (VARTM). VARTM uses single-sided molding technology to infuse resin over fabrics wrapping large structures, such as bridge girders and columns. There is no research currently available on the interface developed, when VARTM processing is adopted to wrap fibers such as carbon and/ or glass over concrete structures. This chapter investigates the shear and flexural strength gains of a beam by carbon fiber cast on concrete using the VARTM method. The carbon fiber composite was made using Sikadur HEX 103C and low viscosity epoxy resin Sikadur 300. Tests were conducted to determine and document the gains of FRP rehabilitated beams applied by the VARTM method compared to the hand layup method of application. This newly introduced technique to repair and retrofit a simple span I-565 prestressed concrete bridge girder in Huntsville, Alabama, was implemented in the field within two days without any traffic interruption, and the field demonstration of this newly introduced technique to civil infrastructure is presented to the end.

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