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Strengthening of Concrete Structures with Externally Bonded Fiber-Reinforced Polymer (FRP) Materials Using the Wet Layup Method—Specification

Reported by ACI Committee 440

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This Specification covers requirements for strengthening concrete structures using externally bonded fiber-reinforced polymer (FRP) materials using the wet layup method. This Specification includes requirements for surface preparation of the substrate, including applying primers and putties, saturating the dry fabric, installing the fabric on the substrate, identifying and repairing defects, and field testing for quality control of the installation and materials.

Keywords: bond-critical application; contact-critical application; fiber-reinforced polymer (FRP) system; laminate; strengthening; wet layup.

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