

ACI Committee Document

Abstracts

The following ACI documents are, or will soon be, available:

“Qualification of Post-Installed Reinforcing Bar Systems in Concrete—Code and Commentary (ACI CODE-355.5-24)”

Reported by ACI Committee 355, Anchorage to Concrete
Andra Hoermann-Gast, Chair; Jay Dorst, Vice Chair; John F. Silva, Vice Chair; Neal S. Anderson, Jacques A. Bertrand, T.J. Bland, Rachel Chicchi Cross, Rolf Eligehausen, Werner A.F. Fuchs, Brian C. Gerber, Jan Erich Hofmann, Chiwan Wayne Hsieh, Amy S. Kolczak, Thomas A. Kolden, Anthony J. Lamanna, Giovanni Muciaccia, Daniel T. Mullins, John E. Pearson, Marlou B. Rodriguez, Milton Rodriguez, Peter C. Schillinger, Howard Silverman, Luke Tavernit, Jason H. Wagner, and Roman Wan-Wendner, Members; Peter J. Carrato, Ronald A. Cook, Branko Galunic, Neil M. Hawkins, Christopher La Vine, Nam-Ho Lee, Lee W. Mattis, Robert R. McGlohn, Donald F. Meinheit, Conrad Paulson, and Dan R. Stoppenhagen, Consulting Members.

Special acknowledgment given to K. McBride for his contribution to this Code.

Abstract: This Code prescribes testing programs and evaluation requirements for post-installed reinforcing bars intended for use in concrete under the straight-bar development and splice length design provisions of ACI CODE-318. Testing and assessment criteria are provided for various conditions of use, including seismic loading, sustained loading, aggressive environments, and reduced and elevated temperatures. Criteria are provided for establishing the required characteristic bond strength, reductions for adverse conditions, and associated jobsite quality control requirements.

“Strengthening Structural Concrete with Fiber-Reinforced Polymer (FRP) Systems—Code Requirements and Commentary (ACI CODE-440.13)”

Reported by ACI Committee 440S, Fiber Reinforced Polymer Repair and Rehabilitation of Concrete Code
Kent A. Harries, Chair; Maria Lopez de Murphy, Vice Chair; William J. Gold, Secretary; Tarek Alkhrdaji, Scott Arnold, Aniket Borwankar, Mahmut Ekenel, Ravi Kanitkar, Michael W. Lee, Abheetha Peiris, J. Gustavo Tumialan, and Erblina Vokshi, Members; Carl J. Larosche, Consulting Member.

Abstract: This Code provides minimum design requirements for strengthening of existing concrete structural

systems and members using externally bonded and near-surface-mounted (NSM) fiber-reinforced polymer (FRP) systems. Among the subjects covered are design and detailing for strength, serviceability, and durability; load combinations, load factors, and strength-reduction factors; FRP anchorage to concrete; development and splicing of FRP reinforcement; field inspection; and testing. This Code was developed by a consensus process and is written for use by licensed design professionals and authorities having jurisdiction. Minimum requirements for materials, design and construction, and quality control and assurance requirements for FRP strengthening systems are provided. This Code is written in a format that allows adoption by reference in a repair code or a general building code. Background details or suggestions for carrying out the requirements or intent of this Code’s provisions are in the Commentary.

“Application of Epoxy and Latex Adhesives for Bonding Freshly Mixed and Hardened Concretes—Guide (ACI PRC-548.11-24)”

Reported by ACI Committee 548, Polymers and Adhesives for Concrete

Michael S. Stenko, Chair; Ashraf I. Ahmed, Mohammad A. Alhassan, Jacques A. Bertrand, Curt Costello, Chris Davis, Don Edwards, David W. Fowler, Moneeb Genedy, Quentin L. Hibben, Albert O. Kaeding, Bradley Nemunaitis, Joseph A. Nuciforo Jr., Mahmoud M. Reda Taha, Johnnie Rice, Aly Said, Joseph R. Solomon, Mary E. Vancura, and David White, Members; Lu Anqi, Shashi P. Bhatnagar, Lech Czarnecki, Larry J. Farrell, Bert Paul Kreikemans, Deon Kruger, William Lee, John R. Milliron, Hamid Saadatmanesh, Donald P. Tragianese, and Wafeek S. Wahby, Consulting Members.

Abstract: This guide provides information, requirements, and procedures for bonding freshly mixed and hardened concretes by using epoxy or latex adhesives. This guide covers evaluation of hardened concrete, selection of suitable epoxy or latex adhesive, and application methods.

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