

ACI Committee Document

Abstracts

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

“Performance-Based Fiber-Reinforced Concrete for Slabs-on-Ground and Overlays—Specification (ACI SPEC-544.12-23)”

Reported by ACI Committee 544, Fiber Reinforced Concrete Liberato Ferrara, Chair; Neven Krstulovic-Opara, Secretary; Clifford N. MacDonald, Membership Secretary; Corina-Maria Aldea, Salah Ahmed Altoubat, Emmanuel K. Attiogbe, Mehdi Bakhshi, Nemkumar Banthia, Joaquim Oliveira Barros, Amir Bonakdar*, Amanda C. Bordelon, Jean-Philippe Charron, Xavier Destree, Ashish Dubey, Mahmut Ekenel, Alessandro P. Fantilli, Dean P. Forgeron, Emilio Garcia Taengua, Rishi Gupta, Heidi Helmink, David A. Lange, Michael A. Mahoney, Bruno Massicotte, James Milligan, Nicholas C. Mitchell Jr., Barzin Mobasher*, Verya Nasri, Giovanni A. Plizzari, Marc M. Rached*, Klaus Alexander Rieder, Pierre Rossi, Steve Schaef, Surendra P. Shah, Flavio de Andrade Silva, Luca Sorelli, Hendrik Thoof, Thomas E. West Jr., Kay Wille, and Robert C. Zellers, Members; P.N. Balaguru, Hiram Price Ball Jr., Gordon B. Batson, Arnon Bentur, Andrzej M. Brandt, James I. Daniel, Sidney Freedman, Christian Meyer, Antoine E. Naaman, and Venkataswamy Ramakrishnan, Consulting Members.

*Special thanks to these individuals for their contribution to this specification.

Abstract: This specification covers the performance requirements for the use of fiber-reinforced concrete in slabs-on-ground and overlays, and includes provisions for the minimum equivalent flexural residual strength required for the fiber-reinforced concrete. It applies to the use of steel, synthetic, and glass macrofibers used to replace reinforcing steel bars and welded-wire mesh. This specification is intended to supplement the requirements presented in ACI SPEC-301 and not intended to be a standalone specification. The use of microfibers for plastic shrinkage crack-width control is not covered by this specification.

“Concrete Repair—Guide (ACI PRC-546-23)”

Reported by ACI Committee 546, Repair of Concrete Peter Barlow, Chair; Chris White, Secretary; Michael M. Chehab, Kevin Conroy, Marwan A. Daye, John D. Fauth, Michael J. Garlich, Paul E. Gaudette, Timothy R.W. Gillespie, Matthew R. Hansen, Susan Isble, Lawrence F. Kahn, Brian F. Keane, Kenneth M. Lozen, John S. Lund, Johan L. Silfwerbrand, Michael M. Sprinkel*, Peter Tarara, Joseph E. Tomes, David A. VanOcker, Kurt Wagner, and David W. Whitmore, Members; Peter Emmons, Etien Frett, Fred R. Goodwin, Harald G. Greve, Noel P. Mailvaganam, James E.

McDonald, Kevin A. Michols, Richard Montani, Jay H. Paul, Don T. Pyle, Aamer H. Syed, Nicholas R. Triandafilou, and Patrick M. Watson, Consulting Members.

*Deceased.

Abstract: This guide presents recommendations for the selection and application of materials and methods for repairing, protecting, and strengthening concrete structures. An overview of materials and methods is presented as a guide for selecting a particular application. References are provided for obtaining in-depth information on the selected materials or methods.

“Materials Selection for Concrete Repair—Guide (ACI PRC-546.3-23)”

Reported by ACI Committee 546, Repair of Concrete Peter Barlow, Chair; Chris White, Secretary; Michael M. Chehab, Kevin Conroy, Marwan A. Daye, John D. Fauth, Etien Frett, Michael J. Garlich, Paul E. Gaudette, Timothy R.W. Gillespie, Matthew R. Hansen, Susan Isble, Lawrence F. Kahn, Brian F. Keane, Kenneth M. Lozen, John S. Lund, Johan L. Silfwerbrand, Michael M. Sprinkel*, Aamer H. Syed, Peter Tarara, Joseph E. Tomes, David A. VanOcker, Kurt Wagner, and David W. Whitmore, Members; Peter Emmons, Fred R. Goodwin, Harald G. Greve, Noel P. Mailvaganam, James E. McDonald, Kevin A. Michols, Richard Montani, Jay H. Paul, Don T. Pyle, Nicholas R. Triandafilou, and Patrick M. Watson, Consulting Members.

*Deceased.

Abstract: This document provides guidance on the selection of materials for concrete repair. An overview of the important properties of repair materials is presented as a guide for making an informed selection of the appropriate repair materials for specific applications and service conditions.

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