2017 Publication CATALOG

Your Source for Information on Concrete Repair, Restoration and Protection
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ICRI Technical Guide No. 110.1–2016
Guide Specifications for Structural Concrete Repairs
This is the initial document in a series of guide specifications to be prepared by ICRI. The guide specification offers a methodology for standardizing the essential requirements for structural concrete repairs by providing specification text, optional requirements, and commentary to allow the user to tailor the document to a specific concrete repair project, and use as a technical specification section in a complete project manual. Both the printed and PDF copies include a Word document with hidden text for easy modification of text to meet specific repair project requirements.

ICRI - 2016, 48 pages
Item #: 110116
ICRI Member Price: $40.00
Non-member Price: $80.00

ICRI Technical Guideline No. 120.1–2009
Guidelines and Recommendations for Safety in the Concrete Repair Industry
This guideline can be used to educate supervisors, craft workers, owners, and engineers in safe work practices for the concrete repair industry. The guideline will have universal appeal, as it has been developed to be a visual tool that depicts the safe performance of specific tasks and the hazards associated with those tasks. The requirements described are based on the most recent OSHA standards and are intended to provide guidance and training in the planning and execution of repair and restoration projects. Also available in Spanish.

ICRI - 2009, 114 pages
Item #: 120109
ICRI Member Price: $26.00
Non-member Price: $52.00
Spanish version
ICRI - 2009, 114 pages
Item #: 120109S
ICRI Member Price: $26.00
Non-member Price: $52.00

ICRI Technical Guide No. 130.1R–2009
Guide for Methods of Measurement and Contract Types for Concrete Repair Work
Familiarity with contract types, the selection of appropriate repair work items, and documentation of completed work is essential for successful completion of a concrete repair project. This guide is intended to assist owners, consultants, and contractors in defining recommended methods of quantity measurement and contract types for concrete repair work.

ICRI - 2009, 16 pages
Item #: 1301R09
ICRI Member Price: $31.00
Non-member Price: $62.00

Guide for Verifying Field Performance of Epoxy Injection of Concrete Cracks
This guideline is intended to assist the contractor, licensed design professional, and owner in the development of performance specifications for quality assurance and quality control of epoxy injection of concrete cracks. It includes process-control methods to assess if satisfactory injection work is being performed. Quality assurance methods described include visual observations and testing samples during the injection work, and removing concrete core samples and performing nondestructive testing of completed repairs.

ICRI - 2016, 12 pages
Item #: 2101R16
ICRI Member Price: $31.00
Non-member Price: $62.00

Guide for Using In-Situ Tensile Pulloff Tests to Evaluate Bond of Concrete Surface Materials
This guide provides a recommended method of evaluating the adequacy of concrete surface preparation and tensile bond strength of cementitious and polymer concrete surface repairs using the in-situ drilled core tensile pulloff test. This guide outlines equipment and material requirements, the test procedure, reporting, and acceptance criteria.

ICRI - 2013, 20 pages
Item #: 2103R13
ICRI Member Price: $31.00
Non-member Price: $62.00

Guide for Nondestructive Evaluation Methods for Condition Assessment, Repair, and Performance Monitoring of Concrete Structures
This new guideline will assist contractors, owners, engineers, architects, and material suppliers in the selection of nondestructive evaluation (NDE) methods for evaluating the condition of concrete structures. NDE can be a very useful method to provide quality control and assurance of repairs and long-term performance monitoring. Considerations in planning and executing an NDE program, including correlating with destructive methods, are discussed in the guideline. Guidance, including a brief synopsis of each method, is presented for selecting which NDE methods are appropriate for the concrete property/condition being assessed.

ICRI - 2009, 28 pages
Item #: 210409
ICRI Member Price: $37.00
Non-member Price: $74.00
ICRI Technical Guideline No. 310.1R–2008
Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion
Outlines the steps in preparing concrete for replacement material in areas where corroded reinforcing steel has caused cracking, spalling, delamination, or other types of deterioration. Topics covered include exposing and undercutting reinforcing steel, edge and surface conditioning, repair of reinforcing steel, and removal geometry. Also available in Spanish and French.
ICRI - 2008, 8 pages
ICRI Member Price: $19.00
Item #: 3101R08
Spanish version
ICRI - 2008, 8 pages
ICRI Member Price: $19.00
Item #: 3101R08S
French version
ICRI - 2008, 8 pages
ICRI Member Price: $19.00
Item #: 3101R08F

ICRI Technical Guideline No. 310.2R–2013
Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair
This guideline summarizes the capabilities, requirements, and limitations of the various methods used to prepare concrete surfaces for the application of protective sealers, coatings, polymer overlays, and concrete repair. Benchmark profiles are defined that provide visual standards for the purpose of specification, application, and verification. Document includes a description of various test methods used to evaluate a prepared surface and an appendix for selecting surface preparation methods. Also available in Spanish and French.
ICRI - 2013, 48 pages
ICRI Member Price: $38.00
Item #: 3102R13

ICRI Technical Guideline No. 310.3R–2014
Guide for the Preparation of Concrete Surfaces for Repair Using Hydrodemolition Methods
This guideline provides an introduction to hydrodemolition for concrete removal and surface preparation, benefits and limitations of using hydrodemolition, and an understanding of other aspects to be addressed when incorporating hydrodemolition into a repair project. Includes a description of the equipment, applications, safety procedures, and methods of water control and cleanup.
ICRI - 2014, 28 pages
ICRI Member Price: $31.00
Item #: 3103R14

ICRI Technical Guideline No. 310.2R–2013
Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair
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ICRI - 2013, 48 pages
ICRI Member Price: $38.00
Item #: 3102R13

ICRI Technical Guideline No. 320.1R–1996
Guide for Selecting Application Methods for the Repair of Concrete Surfaces
Illustrates and describes the methods currently available for placement of concrete repair materials, along with material requirements and the best applications for each. In addition, engineering considerations, constructibility, and quality control are addressed.
ICRI - 1996, Reissued 2002, 8 pages
ICRI Member Price: $19.00
Item #: 3201R96

ICRI Technical Guideline No. 320.2R–2009
Guide for Selecting and Specifying Materials for Repair of Concrete Surfaces
A tool to help designers, specifiers, contractors, and manufacturers make the best possible decisions in selecting materials for the repair of concrete surfaces. It fully describes a process used to develop sound selection criteria that will ensure that, for each project, the material properties needed to produce durable repairs are specified.
ICRI - 2009, 36 pages
ICRI Member Price: $31.00
Item #: 3202R09

VISIT OUR ONLINE BOOKSTORE TODAY! WWW.ICRI.ORG
ICRI Technical Guideline No. 320.5R–2014
Pictorial Atlas of Concrete Repair Equipment
The intent of this document is not to advocate one type of paddle or piece of equipment versus another, discuss mixing efficiency, or other properties, but simply to provide a single-source common guide that can be used in the trade when describing or specifying mixing equipment. Specifying equipment for mixing concrete repair materials is extremely difficult because the industry uses multiple names for the same equipment and the same names for different equipment. Different types of mixing paddles and mixers can produce different consistencies and properties in concrete repair products. This guideline will help ensure the appropriate equipment is properly described or specified. PDF ONLY. Also available in Spanish.

ICRI - 2014, 18 pages
Item #: 3205R14
ICRI Member Price: $0.00
Non-member Price: $62.00
Spanish version
ICRI - 2014, 18 pages
Item #: 3205R14S
ICRI Member Price: $0.00
Non-member Price: $62.00

ICRI Technical Guideline No. 320.6–2012
Guide for Evaluation and Repair of Unbonded Post-Tensioned Concrete Structures
This guide is intended to provide an introduction to the evaluation and repair of existing concrete structures post-tensioned with unbonded single-strand tendons. The strength and serviceability of a structure that has experienced deterioration can be evaluated and restored to its original—or greater—strength and serviceability. There is no substitute for experience and knowledge in working with post-tensioned structures. An experienced contractor and licensed design professional team is essential when working with post-tensioned structures. (Joint ICRI/PTI document)

ICRI/PTI - 2012, 54 pages
Item #: 320612
ICRI Member Price: $50.00
Non-member Price: $100.00

ICRI Technical Guideline No. 330.1–2006
Guide for the Selection of Strengthening Systems for Concrete Structures
An aid for the selection process, this guideline describes several methods of strengthening structures, including externally bonded systems, post-tensioning, section enlargement, and supplemental supports. Various issues regarding design considerations, advantages, and limitations are provided for the use of these systems. For each strengthening system, the engineering considerations, systems, methods and materials, durability, fire considerations, and field applications are discussed.

ICRI - 2006, 32 pages
Item #: 330106
ICRI Member Price: $31.00
Non-member Price: $62.00

ICRI Technical Guideline No. 330.2–2016
Guide Specifications for Externally Bonded FRP Fabric Systems for Strengthening Concrete Structures
This is the second document in a series of guide specifications prepared by ICRI. The guide specification addresses the requirements for the supply and installation of FRP fabric systems by providing specification text, optional requirements, references, and commentary to allow the user to tailor the document to a specific structural strengthening repair project, and use as a technical specification section in a complete project manual. Both the printed and PDF copies include a Word document with hidden text for easy modification of text to meet specific repair project requirements. Note that the design of the FRP system is outside the scope of these guide specifications.

ICRI - 2016, 32 pages
Item #: 330216
ICRI Member Price: $40.00
Non-member Price: $80.00

Guide for the Evaluation of Masonry Façade Structures
This guideline describes the tools, techniques, and processes that are used in the evaluation of masonry façade structures. It offers background into the history and evolution of masonry structure design and construction. It also describes the entire evaluation process, from an investigation of the structure to techniques and procedures for nondestructive and visual evaluation through the physical inspection process.

ICRI - 2008, 38 pages
Item #: 410108
ICRI Member Price: $37.00
Non-member Price: $74.00
ICRI Technical Guideline No. 510.1–2013
Guide for Electrochemical Techniques to Mitigate the Corrosion of Steel for Reinforced Concrete Structures

This guideline is intended to provide information on electrochemical techniques used to mitigate the corrosion of steel in atmospherically exposed concrete structures. The information presented is based on testing and the experience of owners, engineers, contractors, and suppliers. This guideline includes information on impressed current and galvanic cathodic protection, electrochemical chloride extraction, and realkalization.

ICRI - 2013, 24 pages
Item #: 510113
ICRI Member Price: $37.00
Non-member Price: $74.00

ICRI Technical Guideline No. 710.1–2004
Guide for Design, Installation, and Maintenance of Protective Polymer Flooring Systems for Concrete

This technical committee report deals with the design, installation, and maintenance of protective polymer flooring systems that are applied and directly bonded to concrete. Contains detailed information on the aspects of flooring technology, performance properties, surface preparation requirements, installation procedures, and testing to attain long-term service from a variety of polymer flooring systems. (Joint ICRI/NACE/SSPC document)

ICRI/NACE/SSPC - 2004, 40 pages
Item #: 710104
ICRI Member Price: $31.00
Non-member Price: $62.00

ICRI Technical Guideline No. 710.2–2014
Guide for Horizontal Waterproofing of Traffic Surfaces

This guideline provides information for the selection and application of materials for fluid-applied waterproofing systems to concrete pedestrian and vehicular traffic surfaces. Properly selected and applied traffic membrane systems can protect concrete from deterioration caused by abrasion, moisture intrusion, environmental forces, and chemical attack. The guideline includes system design, material properties and types, project implementation, system installation, and health and safety.

ICRI - 2014, 20 pages
Item #: 710214
ICRI Member Price: $31.00
Non-member Price: $62.00

Concrete Repair and Maintenance Illustrated
by Peter H. Emmons

This comprehensive book describes the causes, effects, and remedies for concrete wear and failure. It is a practical guide to evaluation of deterioration and its causes, selection of repair methods and materials, surface preparation, and quality assurance of the finished product. Hundreds of illustrations show users how to analyze, maintain, and repair concrete structures for optimal performance and cost-effectiveness. Soft cover.

1994, 295 pages
Item #: CRMI
ICRI Member Price: $79.00
Non-member Price: $105.00

Concrete Repair Manual, Fourth Edition
Two Volume Set
Jointly produced by the American Concrete Institute and the International Concrete Repair Institute.

The Fourth Edition of the most comprehensive collection of information on concrete repair ever assembled in a single source. It includes over 70 documents from many of the associations involved in the concrete repair industry’s Vision 2020 plan, including ACI, ICRI, NACE, SSPC, and the Army Corps of Engineers, and from the United Kingdom: the BRE and the Concrete Society. This edition is also being offered as a CD-ROM, with each document as an individual PDF file.

ACI/ICRI - 2013, 2368 pages
Soft Cover Manual (v1 & v2) only
Item #: RPMN13
ICRI Member Price: $159.00
Non-member Price: $259.00
CD-ROM only
Item #: RPMN13CD
ICRI Member Price: $149.00
Non-member Price: $249.00
Soft Cover Manual (v1 & v2) and CD-ROM together
Item #: RPMN13P
ICRI Member Price: $229.00
Non-member Price: $359.00
Strengthening and Stabilization of Concrete and Masonry Structures
Various authors
This special publication is a compilation of existing articles on various structural strengthening, stiffening, and stabilization topics, including external bonded reinforcement, external post-tensioning, internal post-tensioning, section enlargement and overlays, supplemental framing and span shortening, and strengthening and stabilization of masonry structures. The purpose is to provide engineers and contractors with a single-source overview of the various materials and techniques available to solve strengthening, stiffening, and stabilization problems. The wealth of information provided should provide invaluable “food for thought” to facilitate the strengthening, stiffening, and stabilization design process.

2003, 154 pages  
ICRI Member Price: $30.00  
Non-member Price: $60.00  
Item #: SSCM

Guide to the Code for Assessment, Repair, and Rehabilitation of Existing Concrete Structures (562MAN-16)
Joint ACI/ICRI document
This new joint ACI/ICRI document has been developed to serve as an invaluable companion to the ACI 562-16 Repair Code. The guide is intended to assist design professionals engaged in the assessment and repair of concrete structures interpret and properly use ACI 562. The guide also serves to provide insight into the use and benefits of ACI 562 for contractors, material manufacturers, building owners, and building officials. The guide is separated into two main components: Chapter Guides that follow the organization of ACI 562; and Project Examples that illustrate the use of the code for real world projects from inception through completion. Hard copy only.

2016, 175 pages  
ICRI Member Price: $69.00  
Non-member Price: $115.00  
Item #: 562MAN-16

Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary (ACI562-16)
Reported by ACI Committee 562
This new ACI 562 Repair Code provides minimum requirements for assessing existing concrete structures and performing subsequent structural repair, rehabilitation, and strengthening of those structures. The code document was developed to provide design professionals involved in the assessment of existing concrete structures, a code for the assessment of the damage and deterioration, and the design of appropriate repair and rehabilitation strategies. This code provides rules for a preliminary evaluation that determines the “design basis code” that is, if the building can be repaired based on the ACI 318 version used in the original design, or if the repair needs to comply with the current ACI 318. The code provides rules for determining strength of in-situ material, performing structural analysis, designing for repaired strength and durability, requirements for stability and shoring of construction, and inspection and testing of repairs. Commentary provides application guidance as well as references for additional information. A must-have document for structural concrete repairs. Hard copy only.

ACI Committee 562 - 2016, 86 pages  
ICRI Member Price: $89.00  
Non-member Price: $149.00  
Item #: 56216

Bundled together for your convenience…
562-16 and 562MAN-16 Bundle
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Non-member Price: $199.00  
Item #: 562BUNDLE

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For more than 28 years, ICRI members, through consensus and collaboration, have developed more than 20 Technical Guides and Guidelines on a variety of topics specific to repair and restoration. Access to most of these Guides and Guidelines is now offered as a member benefit. Now, once you join ICRI, you can download a digital copy of the majority of ICRI’s Technical Guides and Guidelines for FREE. Hard copies are still available at a discount to members.

JOIN ICRI TODAY!
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Item #: 2101R16
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Item #: 3205R14
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ICRI - 2014, 18 pages
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Item #: 3205R14S
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Item #: 1301R09
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Item #: 56216

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ICRI/NACE/SSPC - 2004, 40 pages
Item #: 710104
ICRI Member Price: $31.00
Non-member Price: $62.00

GENERAL

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This comprehensive book describes the causes, effects, and remedies for concrete wear and failure. It is a practical guide to evaluation of deterioration and its causes, selection of repair methods and materials, surface preparation, and quality assurance of the finished product. Hundreds of illustrations show users how to analyze, maintain, and repair concrete structures for optimal performance and cost-effectiveness. Soft cover.

1994, 295 pages
Item #: CRM1
ICRI Member Price: $79.00
Non-member Price: $105.00

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ICRI Member Price: $149.00
Non-member Price: $249.00

CD-ROM only
Soft cover Manual (v1 & v2) and
CD-ROM together
Item #: RPMN13P
ICRI Member Price: $229.00
Non-member Price: $359.00
Guide for the Selection of Grouts to Control Leakage in Concrete Structures
This guideline provides information on the properties and characteristics of grout materials for selection of a proper grout material to control water leakage through cracks and other discontinuities in concrete structures. It is also for the selection of grout materials for crack injection to control leaks through cracks in concrete structures.

ICRI - 2006, 28 pages
Item #: 340106

ICRI Member Price: $31.00
Non-member Price: $62.00

ICRI Technical Guideline No. 320.2R–2009
Guide for Selecting and Specifying Materials for Repair of Concrete Surfaces
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Item #: 3202R09

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Item #: 410108

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Item #: 320612

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ICRI Technical Guideline No. 120.1–2009
Guidelines and Recommendations for Safety in the Concrete Repair Industry
This guideline can be used to educate supervisors, craft workers, owners, and engineers in safe work practices for the concrete repair industry. The guideline will have universal appeal, as it has been developed to be a visual tool that depicts the safe performance of specific tasks and the hazards associated with those tasks. The requirements described are based on the most recent OSHA standards and are intended to provide guidance and training in the planning and execution of repair and restoration projects. Also available in Spanish.

ICRI - 2009, 114 pages
Item #: 120109

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ICRI - 2009, 114 pages
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ICRI Technical Guide No. 110.1–2016
Guide Specifications for Structural Concrete Repairs

This is the initial document in a series of guide specifications to be prepared by ICRI. The guide specification offers a methodology for standardizing the essential requirements for structural concrete repairs by providing specification text, optional requirements, and commentary to allow the user to tailor the document to a specific concrete repair project, and use as a technical specification section in a complete project manual. Both the printed and PDF copies include a Word document with hidden text for easy modification of text to meet specific repair project requirements.

ICRI - 2016, 48 pages
Item #: 110116

ICRI Member Price: $40.00
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Guide Specifications for Externally Bonded FRP Fabric Systems for Strengthening Concrete Structures

This is the second document in a series of guide specifications prepared by ICRI. The guide specification addresses the requirements for the supply and installation of FRP fabric systems by providing specification text, optional requirements, references, and commentary to allow the user to tailor the document to a specific structural strengthening repair project, and use as a technical specification section in a complete project manual. Both the printed and PDF copies include a Word document with hidden text for easy modification of text to meet specific repair project requirements. Note that the design of the FRP system is outside the scope of these guide specifications.

ICRI - 2016, 32 pages
Item #: 330216

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ICRI Technical Guideline No. 330.1–2006
Guide for the Selection of Strengthening Systems for Concrete Structures

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ICRI - 2006, 32 pages
Item #: 330106

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Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion

Outlines the steps in preparing concrete for replacement material in areas where corroded reinforcing steel has caused cracking, spalling, delamination, or other types of deterioration. Topics covered include exposing and undercutting reinforcing steel, edge and surface conditioning, repair of reinforcing steel, and removal geometry. Also available in Spanish and French.

ICRI - 2008, 8 pages
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ICRI Technical Guideline No. 310.2R–2013
Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair
This guideline summarizes the capabilities, requirements, and limitations of the various methods used to prepare concrete surfaces for the application of protective sealers, coatings, polymer overlays, and concrete repair. Benchmark profiles are defined that provide visual standards for the purpose of specification, application, and verification. Document includes a description of various test methods used to evaluate a prepared surface and an appendix for selecting surface preparation methods. Also available in Spanish and French.
ICRI - 2013, 48 pages
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This new guideline will assist contractors, owners, engineers, architects, and material suppliers in the selection of nondestructive evaluation (NDE) methods for evaluating the condition of concrete structures. NDE can be a very useful method to provide quality control and assurance of repairs and long-term performance monitoring. Considerations in planning and executing an NDE program, including correlating with destructive methods, are discussed in the guideline. Guidance, including a brief synopsis of each method, is presented for selecting which NDE methods are appropriate for the concrete property/condition being assessed.
ICRI - 2009, 28 pages
Item #: 210409
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ICRI Technical Guideline No. 710.2–2014
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