



Concrete Repair to EN 1504: Diagnosis, Design, Principles and Practice

By Michael Raupach, Till Büttner

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Concrete Repair to EN 1504: Diagnosis, Design, Principles and Practice By Michael Raupach, Till Büttner

The Construction Sector Is Increasingly Focused On Repair

As concrete structures are maintained longer for both environmental and financial reasons, the diagnosis, design, and selection of products, and repair work all depend on the individual condition of the buildings and require specialist knowledge from everyone involved. **Concrete Repair to EN 1504: Diagnosis, Design, Principles and Practice** provides relevant background and practical guidance on concrete repair. This book is based on the new European Standard EN 1504, which is used as the actual basis for concrete repair works, in Europe and beyond.

Offers a Systematic and Thorough Approach

It includes both practice and theory, and provides an ideal basis for understanding and designing repair works. It addresses building materials, deterioration mechanisms, diagnosis, load-bearing capacity and safety, repair principles and methods, repair materials, execution of repair works, quality control, inspections, monitoring, and maintenance and building management systems right through to building regulations and standards. It also covers deterioration mechanisms of concrete and steel reinforcement, diagnosis methods, principles of repair and protection, properties and fields of application of repair materials, as well as methods of execution, including quality control to EN 1504.

- Describes the theoretical background of corrosion and diagnosis methods (which are not covered by the EN 1504 series)
- Provides the systematics of principles and methods in detail
- Includes dedicated comprehensions which enables the reader to quickly access

the knowledge

The text provides a complete overview and is a practical resource for owners, designers, product suppliers, testing institutes, and consulting engineers, as well as for students in civil engineering.

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- Sales Rank: #3715601 in Books

- Published on: 2014-05-02
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .90" w x 7.10" l, 1.72 pounds
- Binding: Hardcover
- 292 pages

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Editorial Review

Review

"This book provides clear background information on the underlying intervention principles which are discussed in more and better detail than in EN 1504. The book offers essential background to EN 1504 for the repair of existing concrete structures and can be read and understood by a diverse group of people, ranging from professionals and technicians to those involved with the management of buildings and structures."

—Joost Gulikers, Rijkswaterstaat, GPO

"... this book fulfills its goals to cover both theory and practice as well as to contain all the relevant information needed not only by owners, companies, contractors, engineers but also by students of civil engineering. All those using EN 1504 should not miss to take a look in this book." —*Materials and Corrosion*, March 2016

About the Author

Michael Raupach is chair of the Institute for Building Materials (ibac), Repair and Conservation of Buildings at RWTH Aachen University, and is actively engaged in diagnosis and design with the consulting engineers Raupach Bruns Wolff. He has been active as the German delegate in the preparation of the European Standard EN 1504, which is the actual basis for concrete repair works, not only in Europe but also in other countries. He has published more than 500 papers and made several contributions to books in corrosion, repair, and maintenance of buildings.

Till Büttner was a research assistant at the Institute of Building Materials (ibac) and is now working at the construction company Eurovia Beton in Troisdorf, Germany, in the field of concrete repair. He wrote his PhD thesis on the lifetime prediction of polymer-modified glass reinforcement of concrete and is active in the field of on-site diagnosis, evaluation of the status of concrete structures, as well as developing concepts for the repair and maintenance of concrete structures.

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Alice Hill:

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Bobby House:

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