

Sprayed concrete —

Part 2: Execution

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National foreword

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A list of organizations represented on B/517/10 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Béton projeté - Partie 2 : Exécution

Spritzbeton - Teil 2: Ausführung

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CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This document (EN 14487-2:2006) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard is applicable to sprayed concrete to be used for ground strengthening, repair and upgrading of existing structures and for free-standing structures.

The standard specifies requirements for the execution of concrete spraying both by wet and dry process.

The standard is applicable to temporary as well as permanent structures.

This standard does not cover safety and health aspects of execution.

This standard does not state requirements for quality assurance and for qualification of personnel for the various activities.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 206-1:2000, *Concrete — Part 1. Specification, performance, production and conformity*

EN 1504-3, *Products and systems for the protection and repair of concrete structures — Definitions, requirements, quality control and evaluation of conformity — Part 3: Structural and non-structural repair*

EN 1504-10, *Products and systems for the protection and repair of concrete structures — definitions — requirements — quality control and evaluation of conformity — Part 10: Site application of products and systems and quality control of the works*

ENV 13670-1, *Execution of concrete structures — Part 1: Common*

EN 14487-1:2005, *Sprayed concrete — Part 1: Definitions, specifications and conformity*

EN 14488-6, *Testing sprayed concrete — Part 6: Thickness of concrete on a substrate*

EN 14889-1, *Fibres for concrete — Part 1: Steel fibres — Definitions, specifications and conformity*

EN 14889-2, *Fibres for concrete — Part 2: Polymer fibres — Definitions, specifications and conformity*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14487-1:2005 apply.

4 Documentation

4.1 Project specification

The project specification shall include all necessary information and technical requirements for execution of the works.

As a minimum the following shall be stated:

- type of project (bridge, house, road, railway, hydro power, etc.),
- purpose of concrete spraying (permanent or temporary support etc. for ground strengthening), (structural or non structural for repair),