



National Standards Authority of Ireland

IRISH STANDARD

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ICS 91.080.40
01.040.91

**PRODUCTS AND SYSTEMS FOR THE
PROTECTION AND REPAIR OF CONCRETE
STRUCTURES - DEFINITIONS,
REQUIREMENTS, QUALITY CONTROL AND
EVALUATION OF CONFORMITY - PART 1:
DEFINITIONS**

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Supersedes EN 1504-1:1998

English Version

**Products and systems for the protection and repair of concrete
structures - Definitions, requirements, quality control and
evaluation of conformity - Part 1: Definitions**

Produits et systèmes pour la protection et la réparation des
structures en béton - Définitions, prescriptions, maîtrise de
la qualité et évaluation de la conformité - Partie 1:
Définitions

Produkte und Systeme für den Schutz und die
Instandsetzung von Betontragwerken - Definitionen,
Anforderungen, Güteüberwachung und Beurteilung der
Konformität - Teil 1: Definitionen

This European Standard was approved by CEN on 2 June 2005.

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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 European Standard (EN 1504-1:2005) 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of an identical text or by endorsement, at the latest by January 2006, and conflicting national standards shall be withdrawn at the latest by December 2008.

This document supersedes EN 1504-1:1998.

It has been developed by sub-committee 8 "Products and systems for the protection and repair of concrete structures" (Secretariat AFNOR).

This document is part of a series of standards dealing with the general considerations related to the products and systems for the repair and protection of concrete structures. The other parts of this Standard are listed below:

- EN 1504-2, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 2: Surface protection systems for concrete*
- 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 1504-4, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 4: Structural bonding*
- EN 1504-5, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 5: Concrete injection*
- prEN 1504-6, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 6: Anchoring of reinforcing steel bar*
- prEN 1504-7, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 7: Reinforcement Corrosion Protection*
- EN 1504-8, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 8: Quality control and evaluation of conformity*
- ENV 1504-9, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 9: General principles for the use of products and systems*
- 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*

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EN 1504-1:2005 (E)

1 Scope

This European Standard defines terms relating to products and systems for repair, for use in maintenance and protection, restoration and strengthening of concrete structures.

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.

Not applicable.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 General

3.1.1

batch

quantity of material made in a single operation, or in the case of continuous production for a defined quantity (in tonnes) which shall be demonstrated by the producer to have a uniform composition and shall not exceed one day's production

3.1.2

declared value

value declared and documented by the manufacturer for identification or performance requirements

3.1.3

identification test

test carried out to verify a declared value of the composition or property of the product or system in terms of consistency of the production

NOTE This is to ensure that the product or system being tested corresponds to the product or system subjected to the initial type test, within the permitted tolerances.

3.1.4

performance

ability of a product or system to provide an effective and durable repair or protection without adverse effects on the original structure, other structures, site operatives, users, third parties and environment

3.1.5

performance requirements

required mechanical, physical and chemical properties of products and systems to provide durability and stability of both the repaired concrete and the structure

3.1.6

performance test

test carried out to verify a value for a required property of the product or system in terms of its specified performance during application and use

NOTE This is to ensure that the product or system conforms to its specified performance characteristics.

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