

English Version

Products and systems for the protection and repair of
concrete structures - Definitions, requirements, quality
control and AVCP - Part 7: Reinforcement corrosion
protection

Produits et systèmes pour la protection et la réparation
des structures en béton - Définitions, exigences,
maîtrise de la qualité et EVCP - Partie 7 : Protection
contre la corrosion des armatures

Produkte und Systeme für den Schutz und die
Instandsetzung von Betontragwerken - Definitionen,
Anforderungen, Qualitätskontrolle und AVCP - Teil 7:
Korrosionsschutz der Bewehrung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 104.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 1504-7:2015) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of Regulation (EU) No. 305/2011.

For relationship with Regulation (EU) No. 305/2011, see informative Annex ZA which is an integral part of this document.

EN 1504-7 includes an informative Annex A, dealing with minimum frequency of testing for factory production control.

This document will supersede EN 1504-7:2006.

The main changes compared to the previous edition are:

- a) clarification of the scope;
- b) in Table 3, addressing of testing the system of corrosion protection coating and repair mortar according to prEN 1504-3:2015, if necessary;
- c) revision of Annex ZA according to the CPR.

EN 1504, *Products and systems for the protection and repair of concrete structures — Definitions, requirements, quality control and AVCP*, consists of the following parts:

- *Part 1: Definitions*
- *Part 2: Surface protection products and systems for concrete*
- *Part 3: Repair concrete and mortars*
- *Part 4: Structural bonding*
- *Part 5: Concrete injection*
- *Part 6: Anchoring of reinforcing steel bar*
- *Part 7: Reinforcement corrosion protection (the present document)*
- *Part 8: Quality control and assessment and verification of the constancy of performance (AVCP)*
- *Part 9: General principles for the use of products and systems*
- *Part 10: Site application of products and systems and quality control of the works*

1 Scope

This part of EN 1504 specifies requirements for the identification and the performance (including durability aspects) of products and systems for active and barrier coatings for protection of exposed steel which is to be embedded in repair materials according to EN 1504-3.

This part of EN 1504 does not cover products for corrosion protection of pre-stressing steels and stainless steels.

2 Normative references

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

EN 1015-4, *Methods of test for mortar for masonry - Part 4: Determination of consistence of fresh mortar (by plunger penetration)*

EN 1504-1:2005, *Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 1: Definitions*

EN 1504-8:2004, *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*

EN 1504-9:2008, *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 1767, *Products and systems for the protection and repair of concrete structures - Test methods - Infrared analysis*

EN 1877-1, *Products and systems for the protection and repair of concrete structures - Test methods - Reactive functions related to epoxy resins - Part 1: Determination of epoxy equivalent*

EN 1877-2, *Products and systems for the protection and repair of concrete structures - Test methods - Reactive functions related to epoxy resins - Part 2: Determination of amine functions using the total basicity number*

EN 12614, *Products and systems for the protection and repair of concrete structures - Test methods - Determination of glass transition temperatures of polymers*

EN 13062, *Products and systems for the protection and repair of concrete structure - Test method - Determination of thixotropy of products for protection of reinforcement*

EN 15183, *Products and systems for the protection and repair of concrete structures - Test methods - Corrosion protection test*

EN 15184, *Products and systems for the protection and repair of concrete structures - Test methods - Shear adhesion of coated steel to concrete (pull-out test)*

EN ISO 868, *Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) (ISO 868)*

EN ISO 2811-1, *Paints and varnishes - Determination of density - Part 1: Pyknometer method (ISO 2811-1)*