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Draft for Public Comment



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Title: 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

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No. 28, 31/05/01

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Commenting on drafts

Introduction

Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. If no comments are received to the contrary, this draft may be implemented unchanged as a British Standard.

Format

The guidance given below is intended to ensure that all comments receive efficient and appropriate attention by the responsible BSI committee. Annotated drafts are not acceptable and will be rejected.

Each comment shall make one point only, be clearly separated from the others and be structured as follows in clause order:

- clause/sub-clause;
- paragraph/table/figure number;
- type of comment (general, technical or editorial);
- · comment (with rationale);
- proposed change.

Submission

All comments should be submitted to the committee secretary at the Head Office address, preferably electronically via e-mail or on diskette (MS-DOS compatible, 1.44 megabytes). Comments should be compatible with Version 6.0 or Version 97 of Microsoft® Word for Windows™, if possible; otherwise comments in ASCII text format are acceptable. Any comments not submitted electronically should still adhere to the format requirements given above. No acknowledgement will normally be sent.

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	Project no.: 1991/07150 DPC no.: 01/104645	Commentator: Date:	
Droff no:		Short title:	

Proposed change		Amend to read ' so that the mains connector to	Delete reference to UV photometer.
Comment (with rationale)		Definition is ambiguous and needs clarifying.	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK, giving rise to misleadingly high results.
Type of comment (General/ technical/editorial)		Editorial	Technical
Paragraph/ Figure/ Table		1st definition	2nd paragraph
Clause/ subclause	Examples:	3.1	6.4

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN 1504-8

May 2001

ICS

English version

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

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

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 Management Centre has the same status as the official versions.

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

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Foreword

This document has been prepared by CEN /TC 104, "Concrete".

This document is currently submitted to the CEN Enquiry.

This Draft European Standard specifies procedures for sampling, evaluation of conformity, marking and labelling of products and systems for the protection and repair of concrete.

This standard is a part of the series EN 1504, "Products and systems for the protection and repair of concrete", which additionally comprises the following parts:

- Part 1: General Scope and Definitions
- Part 2: Surface protection systems
- Part 3: Structural and non structural repair
- Part 4: Structural bonding
- Part 5: Concrete injection
- Part 6: Grouting to anchor reinforcement or to fill external voids
- Part 7: Reinforcement corrosion prevention
- Part 8: Quality control and evaluation of conformity
- Part 9: General principles for the use of products and systems
- Part 10: Application of products and systems and quality control of the works

1 Scope

This Draft European Standard specifies procedures for quality control and evaluation of conformity, including marking and labelling of products and systems for the protection and repair of concrete according to the parts of EN 1504.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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

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.

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: Injection.

EN 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 reinforcement.

EN 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 prevention.

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 attestation of conforming.

EN 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 the woks.

3 Terms and definitions

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

3.1 batch

a quantity of material made in a single operation, or in the case of continuous production within a defined time period, which can be considered to have a uniform composition



4 Sampling

4.1 General

Sampling shall be carried out during the production process in accordance with the factory production control system in such a way that the resulting sample is homogeneous and representative of the batch or product to be inspected. Samples shall be clearly labelled to identify the source, location and time of sampling. The sample size shall be sufficient for all the required testing. A part of the sample shall be retained for future reference until the use by date.

4.2 Record

All information relevant to the sampling shall be recorded, including in particular:

- a) date of manufacture and sampling;
- b) identification of the product;
- c) type of material;
- d) name of the manufacturer;
- e) manufacturer's batch identification number;
- f) quantity of batch or product represented by the sample;
- g) physical state;
- h) colour or appearance;
- i) names of the persons responsible for sampling;
- j) the method of sampling.

5 Evaluation of conformity

5.1 General

The manufacturer or agent shall demonstrate compliance of the product with the requirements of this European Standard by carrying out:

- identification tests (section 5.2);
- initial type tests (section 5.3);
- factory production control (fpc) (section 5.4).

5.2 Identification tests

The manufacturer shall undertake identification tests for the product or system. The manufacturer shall record the results of the identification tests and shall maintain the specified identification characteristics within the tolerances given in the relevant part of EN 1504.

5.3 Initial type testing

Initial type testing of performance requirements shall be carried out to demonstrate the conformity of the product and system to the requirements of the relevant part of EN 1504. Initial type tests shall be carried out on existing products after any change in raw materials or manufacturing procedures that can modify the declared values of the properties required by the materials specification parts of this standard. The results of the initial tests shall be recorded and be available for inspection.

NOTE Initial tests are those specified in the materials specifications, EN 1504-2 to 7 and need not be the tests used for regular factory production control testing.

5.4 Factory Production Control

The manufacturer shall exercise a permanent factory production control system based on the principles of the relevant part(s) of the EN ISO 9000 series or an equivalent system The factory production control system shall consist of procedures for internal control of production to ensure that products placed on the market continue to conform to the requirements of the materials specification part of this standard. If the factory production control system uses tests other than the identification tests, there shall be evidence of the correlation between the identification test results and the factory production control system test results.

NOTE 1 A manufacturer operating a quality system complying with EN ISO 9001 or 9002 would meet the requirements for fpc in this part of EN 1504 provided that this standard is included in the manufacturer's quality system.

NOTE 2 Guidance on the scope of the factory production control system to satisfy the requirements of the Construction Products Directive is given in the Guidance Paper B, concerning the Construction Products Directive, 89/106/EC.

NOTE 3 Specific factory production control tests and frequencies may be specified in the materials specification parts of this standard.

The fpc system will consist of the following:

- inspection and testing of raw materials, master batches, production equipment and process;
- inspection and testing of finished products.

6 Marking and labelling

When products and systems for protection and repair of concrete are supplied in containers they shall be clearly marked with the following information. When the material is supplied into a bulk container at the point of delivery, the same information shall be provided in writing at the time of delivery as follows:

- the name, address, trademark and any other means of identification of the manufacturer or his authorised representative established in the EEA, and place of production;
- b) the identification of the product, i.e. brand name, batch number;
- c) type of product or system and the number, date and relevant part of EN 1504;
- d) a summary of storage requirements, including requirements on storage life which shall be clearly marked e.g.:
 "This product shall not be taken to comply with EN 1504 after ...";
- e) guidance for use including any particular precautions relating to its use, including any necessary safety precautions as required by local regulations.



When compliance with the system of attestation of conformity for CE marking is achieved, the manufacturer (or Notified Body for attestation system 2+) shall draw up a certificate of the factory production control including the following information:

- a) name and address of the manufacturer, or his authorised representative established in the EEA;
- number of the attached Certificate of factory production control;
- name of, and position held by, the person empowered to sign the declaration on behalf of the manufacturer or
 of his authorised representative;
- d) the intended use of the product (structural or non-structural);
- e) the reference number of the Notified Body (where appropriate);
- f) the values declared by the producer for the harmonised characteristics given in Annex ZA of the relevant part of EN 1504.

Marking and labelling must be represented in the official language or languages of the Member State of the EU in which the product is to be used.