



SLOVENSKI STANDARD
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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

ITeH STANDARD PREVIEW

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Produkte und Systeme für den Schutz und die Instandsetzung von Betontragwerken - Definitionen, Anforderungen, Qualitätsüberwachung und Beurteilung der Konformität - Teil 8: Qualitätsüberwachung und Beurteilung der Konformität

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Produits et systemes pour la protection et la réparation des structures en béton - Définitions, Prescriptions, maîtrise de la qualité et évaluation de la conformité - Partie 8: Maîtrise de la qualité et évaluation de la conformité

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91.080.40 Betonske konstrukcije Concrete structures

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

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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

Produits et systèmes pour la protection et la réparation de structures en béton - Partie 8 : Définitions, Prescriptions, maîtrise de la qualité et évaluation de la conformité - Partie 8: Contrôle qualité et évaluation de conformité

Produkte und Systeme für den Schutz und die Instandsetzung von Betontragwerken - Definitionen, Anforderungen, Qualitätsüberwachung und Beurteilung der Konformität - Teil 8: Qualitätsüberwachung und Beurteilung der Konformität

This European Standard was approved by CEN on 23 April 2004.

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 1504-8:2004) has been prepared by Technical Committee CEN/TC 104 "Concrete and related products", the secretariat of which is held by DIN.

This Part of 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 May 2005, and conflicting national standards shall be withdrawn at the latest by August 2006.

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

This Part of this European Standard specifies procedures for sampling, evaluation of conformity, marking and labelling of products and systems for the protection and repair of concrete. This Part 8 of EN 1504 does not supersede any other document.

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 EU Construction Products Directive (89/106/EC).

This Part of this European Standard is one of the Parts of this Standard on products and systems for the repair and protection of concrete structures, the other Parts are listed below:

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*

prEN 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*

prEN 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*

prEN 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*

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 1504-8:2004 (E)**1 Scope**

This Part of this 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 EN 1504, Parts 2 to 7.

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

prEN 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*

prEN 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*

prEN 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 prevention*

EN ISO 9001, *Quality management systems - Requirements (ISO 9001:2000)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1504-1 and the following apply.

3.1
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.

3.2
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.

3.3 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.

3.4 declared value

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

4 Sampling

4.1 General

Sampling shall be carried out 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 uniquely identify the source, location and time of sampling. The sample size shall be sufficient for all the required testing in accordance with the relevant test method standards.

NOTE A part of the sample should 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) unique identification of the product and of the sample(s)
- c) type of material and quantity of sample(s)
- 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) method of sampling

4.3 Frequency of sampling

For frequency of sampling see frequency of testing in EN 1504 Parts 2 to 6.

EN 1504-8:2004 (E)**5 Evaluation of conformity****5.1 General**

The compliance of the product or system with the requirement of this Part of this standard and the declared values (including classes) shall be demonstrated by:

- initial type-testing (performance tests and identification tests)
- ongoing factory production control by the manufacturer

NOTE In addition, any requirements for certification and surveillance of factory production control are given in Annex ZA of the relevant Part of this Standard.

5.2 Initial Type testing

Initial type-testing shall be performed to show conformity with this Part of this standard. Initial type testing shall be performed when a new formulation or type of product is produced. It shall be repeated:

- when there is a change in the formulation which may have a significant effect on the performance of the product
- when there is a change in the raw materials which may have a significant effect on the performance of the product

The initial type testing shall comprise all performance characteristics, essential for the intended uses of the product. For the performance and identification characteristics to be tested see the relevant Part (Part 2 to 7) of this Part of this standard.

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5.3 Identification tests <https://standards.iteh.ai/catalog/standards/sist/1d5f622-a482-4a71-a108-9bd85d930047/sist-en-1504-8-2005>

Initial identification tests shall be undertaken for the product or system as specified by the materials specification Part of this standard (Table 2 in Parts 2 to 7). The identification tests may be used to confirm the composition of the product at any time. They are to be carried out when specified in Clause 7 of the material specification (Part 2 to 7). Records of these tests shall be held by the manufacturer as part of the product technical file and be available for inspection. The manufacturer shall maintain the specified identification characteristics within the tolerances given in Table 2 of the material specification.

5.4 Performance testing

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. They are to be carried out when specified in 5.2 of the material specification (Part 2 to 6). The results of these tests shall be recorded and be available for inspection in the product technical file.

5.5 Factory Production Control**5.5.1 General**

The manufacturer shall operate a permanent factory production control system to ensure that production continues to meet the identification and performance requirements set out in Clause 5 of the appropriate part of EN 1504. A system in conformity with EN ISO 9001 and made specific to the requirements of this standard meets this requirement. The factory production control system shall consist of procedures for internal control of production to ensure that all batches of products placed on the market continue to conform to the requirements of the relevant materials specification Part of this standard.

For fpc the manufacturer can select representative identification or performance tests or may select other test methods. Such other fpc test methods shall be correlated to the initial identification and performance tests to ensure conformity of the product to the requirements of the document. If the factory production control system uses tests other than the identification and performance tests, there shall be evidence of the correlation between the identification or performance test results and the factory production control system test results.

The fpc system shall consist of the following:

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

The results of inspections, tests or assessments shall be recorded, as shall any action taken. The action to be taken when control values or criteria are not met shall be recorded and retained for a period of at least five years.

5.5.2 Equipment

All weighing measuring and testing equipment shall be calibrated and regularly inspected according to documented procedures, frequencies and criteria.

All equipment used in the manufacturing process shall be regularly inspected and maintained to ensure use, wear or failure does not cause inconsistency in the manufacturing process. Inspections and maintenance shall be carried out and recorded in accordance with the manufacturers written procedures and the records retained for at least five years.

5.5.3 Raw materials and components

The specifications of all incoming raw materials and components shall be documented, as shall the inspection scheme for ensuring their conformity.

5.5.4 Change of formulation or manufacturing process

Identification tests and performance tests shall be carried out on existing products after any change in raw material composition or manufacturing process that may modify the documented values of the properties required by the materials specification Parts of this standard.

5.5.5 Actions in the event of non-conformity

The manufacturer shall ensure by means of procedures documented in the fpc system that any materials, including raw materials, packaging or finished products, which do not conform to the specified requirements are clearly identified and segregated to prevent their use or despatch.

Corrective action shall be described in a non-conformity report and recorded in the fpc system.

5.5.6 Identification and traceability

The manufacturer shall establish and maintain in the fpc system suitable procedures for the identification and traceability of materials from receipt of raw materials through all stages of production and delivery.

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: