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Hydraulic road binders - Part 3: Assessment and verification of constancy of

Hydraulische Tragschichtbinder - Teil 3: Bewertung und Überprüfung der Leistungsbeständigkeit

Liants hydrauliques routiers - Partie 3: Évaluation et vérification de la constance des performances

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Hydraulic road binders - Part 3: Assessment and verification of constancy of performance

Liants hydrauliques routiers - Partie 3: Évaluation et vérification de la constance des performances

Hydraulische Tragschichtbinder - Teil 3: Bewertung und Überprüfung der Leistungsbeständigkeit

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 51.

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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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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 13282-3:2023) has been prepared by Technical Committee CEN/TC 51 “Cement and building limes”, the secretariat of which is held by NBN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13282-3:2015.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

EN 13282, *Hydraulic road binders* consists of the following parts:

- *Part 1: Rapid hardening hydraulic road binders — Composition, specifications and conformity criteria*
- *Part 2: Normal hardening hydraulic road binders — Composition, specifications and conformity criteria*
- *Part 3: Assessment and verification of constancy of performance*

Compared to the version EN 13282-3:2015, the following major changes have been included in this document:

- a) use of the terminology given by the Delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) No 305/2011 (Construction Products Regulation), in particular adoption of the tasks defined in the Delegated Regulation for AVCP system 1+ for a re-arrangement of the clauses of this document;
- b) numbering of the clauses according to the order of the tasks specified in this Delegated Regulation;
- c) removal of the rules for dispatching centres;
- d) clarification/specification of the rules for depots;
- e) replacement of the term “Works’ quality manual” by “Works’ quality documentation”;
- f) replacement of the term “management representative” by “quality manager”;
- g) editorial revision of the document.

prEN 13282-3:2023 (E)**1 Scope**

This document specifies the scheme for the assessment and verification of constancy of performance (AVCP) of hydraulic road binders, including certification of conformity of the factory production control.

This document provides technical rules for factory production control, further testing of samples taken at the manufacturing plant (autocontrol testing), assessment of the performance of the hydraulic road binder, initial inspection of the manufacturing plant and of factory production control and continuing surveillance, assessment and evaluation of factory production control.

This document is intended to be linked with the Annexes ZA of the European Standards covering hydraulic road binders, i.e. EN 13282-1 and EN 13282-2.

NOTE The reason for having drafted this separate document is that the provisions it includes are applicable to different products covered by different European Standards.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 196-7, *Methods of testing cement - Part 7: Methods of taking and preparing samples of cement*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

NOTE In the context of this document the term, “construction product” refers to hydraulic road binder.

3.1**AVCP**

abbreviation for assessment and verification of constancy of performance

3.2**certificate of conformity of the factory production control**

document issued under the rules of this scheme for the AVCP indicating that adequate confidence is provided that factory production control is in conformity with the relevant product specification standard

3.3**factory production control certification body**

body notified in accordance with Chapter VII of Regulation (EU) No 305/2011 to carry out factory production control certification

3.4**factory production control**

documented, permanent and internal control of production in a factory, in accordance with the relevant harmonised technical specifications

[SOURCE: Regulation (EU) No 305/2011, Article 2 (Construction Product Regulation)]

3.5**factory**

facility used by a manufacturer for the production of hydraulic road binders using equipment which is suitable for continuous mass production of hydraulic road binder including, in particular, equipment for adequate grinding and homogenisation and the necessary silo capacity for the storage and dispatch of each hydraulic road binder produced

Note 1 to entry: This equipment and the production control applied allow the control of production with sufficient accuracy.

3.6**new factory**

factory for which the conformity of the factory production control has not been certified using this European Standard

3.7**existing factory**

factory for which the conformity of the factory production control has already been certified using this European Standard

3.8**depot**

bulk hydraulic road binder handling facility (not located at the factory) used for the dispatch of hydraulic road binder, whether in bulk or bagged, after transfer or storage where the manufacturer has full responsibility for all aspects of the quality of the hydraulic road binder

3.9**distributor**

natural or legal person in the supply chain, other than the manufacturer or the importer, who makes a construction product available on the market

[SOURCE: Regulation (EU) No 305/2011, Article 2 (Construction Product Regulation)]

3.10**importer**

natural or legal person established within the European Union, who places a construction product from a third country on the European Union market

[SOURCE: Regulation (EU) No 305/2011, Article 2 (Construction Product Regulation)]

3.11**assessment of the performance**

determination of the essential characteristics of a construction product, on the basis of testing (including sampling), calculation, tabulated values or descriptive documentation of the product

3.12**work's quality documentation**

documentation that provides information on the factory production control which is applied by a manufacturer at a particular factory to ensure constancy of performance of the hydraulic road binder

4 Factory production control

4.1 General requirements

4.1.1 Concept

Factory production control means the permanent internal control of hydraulic road binder production and consists of internal quality control (see 4.2) complemented by an assessment of the performance of the hydraulic road binder on the basis of testing (including sampling) or descriptive documentation of this product (see Clause 5) and by autocontrol testing of samples taken at the point of release¹ (see Clause 6).

NOTE 1 The requirements specified in this document as regards factory production control apply to factories and their depots.

NOTE 2 The requirements of this European Standard as regards factory production control take account of those clauses of EN ISO 9001 [3] which are relevant to the production, process control and testing of hydraulic road binder.

4.1.2 Works' quality documentation

The manufacturer's documentation and procedures for factory production control shall be described in a Work's quality documentation, which shall adequately describe, among other things, for each factory and depot:

- a) the quality aims and the organizational structure, responsibilities and powers of the management with regard to product quality and the means to monitor the achievement of the required product quality and the effective operation of the internal quality control (see 4.1.3 and 4.2);
- b) the manufacturing and quality control techniques, processes and systematic actions that will be used (see 4.2.1, 4.2.2 and 6.2);
- c) the inspections and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out (see 4.2.2, 6.1 and 6.3).

The Work's quality documentation shall include an adequate system of documentation (see 4.1.4 and 6.4).

The Work's quality documentation shall address and document the procedures operated to ensure that the manufactured hydraulic road binder conforms to the performance(s) declared in accordance with the relevant product specification standard. The documentation may reference associated documents which provide further details of the autocontrol testing of samples and the internal quality control. For the purpose of this scheme, the term Work's quality documentation shall be considered to include these associated documents.

In the case of an existing quality management system according to EN ISO 9001 [3], the corresponding quality documentation may also be applied for certification of conformity of the factory production control if it meets all the requirements of this document which are relevant to the factory production control of hydraulic road binder.

¹ This testing corresponds also to the "further testing of samples taken at the manufacturing plant" mentioned in Delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) No 305/2011 (Construction Products Regulation).

4.1.3 Quality management system

4.1.3.1 Quality policy statement

The Work's quality documentation shall include a statement by management defining its quality policy, objectives and commitments to the attainment of product quality.

4.1.3.2 Quality manager

A quality manager shall be appointed who, irrespective of other responsibilities, shall have defined and adequate authority and responsibility for ensuring that the requirements of this document for the AVCP are implemented and maintained.

4.1.3.3 Internal audits and management review

In order to ensure the continuing suitability and effectiveness of the Work's quality documentation to meet the requirements of this document,

- a) internal audits covering the scope of this Clause 4;
- b) a management review of the functioning and the results of the factory production control, taking into account records of the internal audits

shall be performed at least once a year.

4.1.3.4 Training

The Work's quality documentation shall describe the measures taken to ensure that all the personnel involved in operations that can affect internal quality control and product quality have appropriate experience or training. Appropriate records shall be retained.

4.1.4 System of documentation

4.1.4.1 Document control

All documents and data related to factory production control and to this scheme for the AVCP shall be controlled.

This control shall ensure that the appropriate issues of all documents are available at essential locations, that obsolete documents are withdrawn and that changes or modifications to any document are effectively introduced.

A system shall be established to identify the current version of documents in order to prevent the use of non-applicable documents.

4.1.4.2 Quality records

Records shall be retained to provide evidence of factory production control for at least the period required.

4.2 Internal quality control

4.2.1 Process control

4.2.1.1 General

The Work's quality documentation shall describe the parameters for process planning, process control and testing, inspection, corrective action, verification, dispatch and the associated records for each factory and depot.

prEN 13282-3:2023 (E)**4.2.1.2 Constituents and composition of hydraulic road binder**

Documented procedures and appropriate test methods shall be established to ensure that the constituents meet the requirements of the relevant product specification standard and are suitable to enable hydraulic road binder to be produced meeting the targets and control limits.

The Work's quality documentation shall describe the methods used by the manufacturer to ensure that the composition of the hydraulic road binder produced conforms to the performance(s) declared in accordance with the relevant product specification standard, including appropriate test methods.

4.2.1.3 Control of off-specification production or non-conformity

The Work's quality documentation shall contain procedures for the review and adjustment of the factory production control in case of off-specification production or non-conformity.

The actions taken in the event of non-conformity shall be recorded in a report subject to inspection during the management review.

4.2.2 Measuring and testing**4.2.2.1 Inspection, measuring and test equipment**

The equipment for in-process inspection and testing shall be regularly checked and calibrated in accordance with the procedures and frequencies laid down in the Work's quality documentation.

4.2.2.2 Inspection and test status

Procedures for the inspection and test status through the stages of manufacture shall be detailed in the Work's quality documentation. These shall include procedures for the control of off-specification intermediate materials.

4.2.3 Handling, storage, packaging and delivery

The Work's quality documentation shall describe the precautions taken for the protection of the quality of the hydraulic road binder while under the responsibility of the manufacturer for the factory and each depot. Delivery documentation shall allow traceability to the producing works.

5 Assessment of the performance of the hydraulic road binder

The assessment of the performance of the hydraulic road binder shall be based on the first complete set of test results obtained from the first sample of the hydraulic road binder.

NOTE In the last edition of this document, the assessment of the performance of the hydraulic road binder was indicated as "determination of the product type".

Sampling and testing shall be carried out as specified in the clauses entitled "Assessment and verification of constancy of performance – AVCP" in the relevant product specification standard.

NOTE In some versions of product standards, the title of the clause "Assessment and verification of constancy of performance – AVCP" is or was "Conformity criteria".

The results of the assessment of the performance of the hydraulic road binder shall be documented.