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I.S. EN 14227-1:2013

Hydraulically bound mixtures - Specifications - Part 1: Cement bound granular mixtures

I.S. EN 14227-1:2013

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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English Version

Hydraulically bound mixtures - Specifications - Part 1: Cement bound granular mixtures

Mélanges traités aux liants hydrauliques - Spécifications -
Partie 1: Mélanges granulaires traités au ciment

Hydraulisch gebundene Gemische - Anforderungen - Teil 1:
Zementgebundene Gemische

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Contents	Page
Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Symbols and abbreviated terms	6
5 Constituents	7
5.1 Aggregates	7
5.2 Cement	7
5.3 Water	7
5.4 Retarders	7
6 Cement bound granular mixture	7
6.1 Types.....	7
6.1.1 General.....	7
6.1.2 Cement bound granular mixture 1	7
6.1.3 Cement bound granular mixture 2	7
6.1.4 Cement bound granular mixture 3	8
6.1.5 Cement bound granular mixture 4	8
6.1.6 Cement bound granular mixture 5	8
6.2 Water content of mixtures	9
6.3 Proportioning of the constituents, grading and dry density.....	9
6.4 Other requirements for the fresh mixture	9
6.4.1 Compacity.....	9
6.4.2 Immediate bearing index of the mixture.....	9
6.4.3 Workability period.....	10
7 Laboratory mechanical performance classification.....	10
7.1 General.....	10
7.2 Classification by compressive strength.....	10
7.3 Classification by R_t, E	11
7.3.1 General.....	11
7.3.2 Method by direct tensile testing.....	12
7.3.3 Method by indirect tensile testing.....	12
7.3.4 Method by indirect tensile and compression testing.....	12
8 Other requirements for the mixture	13
8.1 Strength after immersion in water	13
8.2 Other characteristics	13
9 Production control	13
10 Designation and description	13
10.1 Designation	13
10.2 Description	13
11 Marking and labelling	14
12 Figures	15
Annex A (normative) Compacity of a cement bound granular mixture 2.....	22
Annex B (informative) Production control for cement bound granular mixtures.....	23
B.1 General.....	23
B.2 Quality manual	23
B.3 Organisation.....	23

B.3.1	Responsibility and authority	23
B.3.2	Management representative	23
B.3.3	Internal audits	23
B.3.4	Management review	24
B.3.5	Sub-contract services	24
B.3.6	Records	24
B.3.7	Training.....	24
B.4	Control procedures	24
B.4.1	Production management	24
B.4.2	Composition of the mixture.....	25
B.4.3	Constituents.....	25
B.4.4	Process control	25
B.4.5	Inspection, calibration and control of process equipment	25
B.4.6	Handling and delivery	25
B.5	Inspection and testing of constituents and mixtures during production.....	26
B.5.1	General	26
B.5.2	Characteristics that require control during production	26
B.5.3	Frequency of sampling the mixture.....	26
B.6	Inspection and testing equipment	27
B.6.1	General	27
B.6.2	Measuring and testing equipment	27
B.6.3	Measuring and testing equipment in the process	27
B.6.4	Measuring and testing equipment in laboratory	27
B.7	Non-conformity	27
B.7.1	General	27
B.7.2	Non-conformity of constituents	28
B.7.3	Non-conformity of the mixture	28

Foreword

This document (EN 14227-1:2013) has been prepared by Technical Committee CEN/TC 227 "Road materials", 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 November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14227-1:2004.

Compared with EN 14227-1:2004, the following changes have been made:

- Changing of the title;
- Revision of Clause 6 "Hydraulic road binder bound granular mixture";
- Revision of Clause 7 "Laboratory mechanical performance classification";
- Inclusion of Clause 8 "Other requirements for the mixture".

This standard is one of a series of parts for EN 14227, *Hydraulically bound mixtures— Specifications:*

- *Part 1: Cement bound granular mixtures*
- *Part 2: Slag bound granular mixtures*
- *Part 3: Fly ash bound granular mixtures*
- *Part 4: Fly ash for hydraulically bound mixtures*
- *Part 5: Hydraulic road binder bound granular mixtures*
- *Part 10: Soil treated by cement*
- *Part 11: Soil treated by lime*
- *Part 12: Soil treated by slag*
- *Part 13: Soil treated by hydraulic road binder*
- *Part 14: Soil treated by fly ash*

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1 Scope

This European Standard specifies cement bound granular mixtures for roads, airfields and other trafficked areas and specifies the requirements for their constituents, composition and laboratory performance classification.

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 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements*

EN 933-1, *Tests for geometrical properties of aggregates — Part 1: Determination of particle size distribution — Sieving method*

EN 1097-6:2000, *Tests for mechanical and physical properties of aggregates — Part 6: Determination of particle density and water absorption*

EN 1097-7, *Tests for mechanical and physical properties of aggregates — Part 7: Determination of the particle density of filler — Pycnometer method*

EN 13242, *Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction*

EN 13286-1, *Unbound and hydraulically bound mixtures — Part 1: Test methods for laboratory reference density and water content — Introduction, general requirements and sampling*

EN 13286-2, *Unbound and hydraulically bound mixtures — Part 2: Test methods for laboratory reference density and water content — Proctor compaction*

EN 13286-3, *Unbound and hydraulically bound mixtures — Part 3: Test methods for laboratory reference density and water content — Vibrocompression with controlled parameters*

EN 13286-4, *Unbound and hydraulically bound mixtures — Part 4: Test methods for laboratory reference density and water content — Vibrating hammer*

EN 13286-5, *Unbound and hydraulically bound mixtures — Part 5: Test methods for laboratory reference density and water content — Vibrating table*

EN 13286-40, *Unbound and hydraulically bound mixtures — Part 40: Test method for the determination of the direct tensile strength of hydraulically bound mixtures*

EN 13286-41, *Unbound and hydraulically bound mixtures — Part 41: Test method for the determination of the compressive strength of hydraulically bound mixtures*

EN 13286-42, *Unbound and hydraulically bound mixtures — Part 42: Test method for the determination of the indirect tensile strength of hydraulically bound mixtures*

EN 13286-43, *Unbound and hydraulically bound mixtures — Part 43: Test method for the determination of the modulus of elasticity of hydraulically bound mixtures*

EN 13286-45, *Unbound and hydraulically bound mixtures — Part 45: Test method for the determination of the workability period of hydraulically bound mixtures*

EN 13286-47, *Unbound and hydraulically bound mixtures — Part 47: Test method for the determination of California bearing ratio, immediate bearing index and linear swelling*

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