Hydraulically bound mixtures -Specifications - Part 13: Soil treated by hydraulic road binder

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14227-
13:2006 sisaldab Euroopa standardi EN
14227-13:2006 ingliskeelset teksti.

Käesolev dokument on jõustatud 31.07.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 14227-13:2006 consists of the English text of the European standard EN 14227-13:2006.

This document is endorsed on 31.07.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This European Standard specifies soils treated by hydraulic road binder for roads, airfields and other trafficked areas and specifies the requirements for their constituents, composition and laboratory performance classification.

Scope:

This European Standard specifies soils treated by hydraulic road binder for roads, airfields and other trafficked areas and specifies the requirements for their constituents, composition and laboratory performance classification.

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Võtmesõnad:

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English Version

Hydraulically bound mixtures - Specifications - Part 13: Soil treated by hydraulic road binder

Mélanges traités aux liants hydrauliques - Spécifications -Partie 13: Sol traité au liant hydraulique routier Hydraulisch gebundene Gemische - Anforderungen - Teil 13: Bodenverbesserung mit hydraulischem Tragschichtbinder

This European Standard was approved by CEN on 3 February 2006.

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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

		Page
Forew	ord	4
1	Scope	
2	Normative references	
3	Terms and definitions	6
4	Symbols and abbreviated terms	
5	Constituents	
5.1	Hydraulic road binder	7
5.2 5.3	Soil	
5.4	Other constituents	7
6	Mixture	7
6.1	General	7
6.2	Proportioning and dry density	
7 7.1	Requirements for the fresh mixture	
7.2	Degree of pulverization	8
7.3 7.4	Immediate bearing index Moisture condition value	8
	Laboratory mechanical performance classification	
B B.1	GeneralGeneral	
8.2	Classification by California bearing ratio	9
8.3 8.4	Classification by compressive strength	
8.4.1	General	11
8.4.2 8.4.3	Method by direct tensile testing	
5.4.3 8.4.4	Method by indirect tensile testing Method by indirect tensile and compression testing	
9	Resistance to water and other requirements for the mixture	
9.1	Resistance to water	12
9.1.1 9.1.2	GeneralStrength after immersion in water	
9.1.3	Linear swelling after soaking in water	13
9.1.4 9.2	Volumetric swelling after immersion in water	
9.2 9.3	Strength at trafficking	
9.4	Workability period	13
10	Production control	
11	Designation and description	14
12	Labelling	14
Annex	A (informative) Examples of 'age of classification' and curing regimes for R_c , R_t and E	
	testing of treated soils including resistance to water testing by full immersion in water	16
	B (informative) Production control for hydraulically treated mixtures	
B.1 B.2	GeneralQuality Manual	
B 3	Organization	17

B.3.1	Responsibility and authority	
B.3.2	Management representative	
B.3.3	Internal audits	
B.3.4	Management review	
B.3.5	Sub-contract services	
B.3.6	Records	
B.3.7	Training	
B.4	Control procedures	
B.4.1	Production management	
B.4.2	Composition of the mixture	
B.4.3	Constituents	
B.4.4	Process control	
B.4.5	Inspection, calibration and control of process equipment	
B.4.6	Handling and delivery	
B.5	Inspection and testing of constituents and mixtures during production	
B.5.1	General	20
B.5.2	Characteristics that require control during production	
B.5.3	Frequency of sampling the mixture	
B.6	Inspection and testing equipment	
B.6.1	General	
B.6.2 B.6.3	Measuring and testing equipment Measuring and testing equipment in the process	
B.6.4	Measuring and testing equipment in the process	
В.0.4 В.7	Non-conformity	
в. <i>т</i> В.7.1	General	
B.7.2	Non-conformity of constituents	
B.7.3	Non-conformity of the mixture	
	Non-conformity of the mixture	

Foreword

This European Standard (EN 14227-13:2006) 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 2006, and conflicting national standards shall be withdrawn at the latest by November 2006.

This European Standard is one of a series of standards for hydraulically bound mixtures:

EN 14227-1, Hydraulically bound mixtures — Specifications — Part 1: Cement bound granular mixtures.

EN 14227-2, Hydraulically bound mixtures — Specifications — Part 2: Slag bound mixtures.

EN 14227-3, Hydraulically bound mixtures — Specifications — Part 3: Fly ash bound mixtures.

EN 14227-4, Hydraulically bound mixtures — Specifications — Part 4: Fly ash for hydraulically bound mixtures.

EN 14227-5, Hydraulically bound mixtures — Specifications — Part 5: Hydraulic road binder bound mixtures.

EN 14227-10, Hydraulically bound mixtures — Specifications — Part 10: Soil treated by cement.

EN 14227-11, Hydraulically bound mixtures — Specifications — Part 11: Soil treated by lime.

EN 14227-12, Hydraulically bound mixtures — Specifications — Part 12: Soil treated by slag.

EN 14227-13, Hydraulically bound mixtures — Specifications — Part 13: Soil treated by hydraulic road binder.

EN 14227-14, Hydraulically bound mixtures — Specifications — Part 14: Soil treated by fly ash.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard specifies soils treated by hydraulic road binder for roads, airfields and other trafficked areas and specifies the requirements for their constituents, composition and laboratory performance classification.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ENV 13282, Hydraulic road binders — Composition, specifications and conformity criteria

EN 13286-2, Unbound and hydraulically bound mixtures — Part 2: Test methods for the determination of the 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 13286-46, Unbound and hydraulically bound mixtures — Part 46: Test method for the determination of the moisture condition value

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

EN 13286-48, Unbound and hydraulically bound mixtures — Part 48: Test method for the determination of the degree of pulverisation

EN 13286-49, Unbound and hydraulically bound mixtures — Part 49: Accelerated swelling test for of soil treated by lime and/or hydraulic binder

EN 14227-13:2006 (E)

EN 13286-50, Unbound and hydraulically bound mixtures — Part 50: Method for the manufacture of test specimens of hydraulically bound mixtures using Proctor equipment or vibrating table compaction

EN 13286-51, Unbound and hydraulically bound mixtures — Part 51: Method for the manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction

EN 13286-52, Unbound and hydraulically bound mixtures — Part 52: Method for the manufacture of test specimens of hydraulically bound mixtures using vibrocompression

EN 13286-53, Unbound and hydraulically bound mixtures — Part 53: Methods for the manufacture of test specimens of hydraulically bound mixtures using axial compression

EN 14227-11, Hydraulically bound mixtures — Specifications — Part 11: Soil treated by lime

3 Terms and definitions

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

3.1

soil

natural, artificial or recycled material or any combination of these

3.2

soil treated with hydraulic road binder

mixture of soil, hydraulic road binder, other constituents if appropriate, and water, that sets and hardens by hydraulic reaction

3.3

slenderness ratio

height to diameter ratio of the specimen

4 Symbols and abbreviated terms

For the purpose of this European Standard, the following symbols and abbreviations apply.

- W is the water content;
- P is the pulverization;
- IPI is the immediate bearing index;
- MCV is the moisture condition value;
- CBR is the California bearing ratio, expressed in percent (%);
- R is the compressive or tensile strength, expressed in megapascals (MPa);
- R_c is the compressive strength, expressed in megapascals (MPa);
- $R_{\rm t}$ is the direct tensile strength, expressed in megapascals (MPa);
- R_{it} is the indirect tensile strength, expressed in megapascals (MPa);
- R_i is the compressive or tensile strength after immersion in water, expressed in megapascals (MPa);
- *E* is the modulus of elasticity, expressed in megapascals (MPa);