

STN	Hydraulicky stmelené zmesi. Špecifikácie. Časť 15: Hydraulicky stabilizované zeminy.	STN EN 14227-15 73 6184
------------	---	---

Hydraulically bound mixtures - Specifications - Part 15: Hydraulically stabilized soils

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/16

Obsahuje: EN 14227-15:2015

Oznámením tejto normy sa ruší
STN EN 14227-10 (73 6184) z novembra 2006

STN EN 14227-11 (73 6184) z novembra 2006

STN EN 14227-12 (73 6184) z novembra 2006

STN EN 14227-13 (73 6184) z novembra 2006

STN EN 14227-14 (73 6184) z novembra 2006

122587

EUROPEAN STANDARD

EN 14227-15

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2015

ICS 93.080.20

Supersedes EN 14227-10:2006, EN 14227-11:2006,
EN 14227-12:2006, EN 14227-13:2006, EN 14227-
14:2006

English Version

Hydraulically bound mixtures - Specifications - Part 15: Hydraulically stabilized soils

Mélanges traités aux liants hydrauliques -
Spécifications - Partie 15: Sols traités aux liants
hydrauliques

Hydraulisch gebundene Gemische - Anforderungen -
Teil 15: Bodenverfestigung mit hydraulischen
Bindemitteln

This European Standard was approved by CEN on 5 September 2015.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European 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 Cement.....	7
5.2 Fly ash.....	7
5.3 Blast-furnace slag.....	7
5.4 Hydraulic road binder.....	7
5.5 Lime.....	7
5.6 Soil.....	7
5.7 Water.....	8
5.8 Other constituents.....	8
6 Mixture	8
6.1 General.....	8
6.2 Proportioning and dry density.....	8
7 Requirements for the fresh mixture	9
7.1 Water content.....	9
7.2 Degree of pulverization.....	9
7.3 Immediate bearing index.....	9
7.4 Moisture condition value.....	10
7.5 Workability period.....	10
8 Laboratory mechanical performance classification	10
8.1 General.....	10
8.2 California bearing ratio.....	11
8.3 Classification by compressive strength.....	11
8.4 Classification by tensile strength and modulus of elasticity (R_t , E).....	12
9 Resistance to water and other requirements for the mixture	14
9.1 Resistance to water.....	14
9.2 Strength for direct construction trafficking.....	15
9.3 Resistance to frost.....	15
10 Production control	15
11 Designation and description	15
12 Labelling	16
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	18
Annex B (informative) Production control for hydraulically stabilized soils	19
B.1 General	19

B.2	Quality Manual.....	19
B.3	Organization.....	19
B.4	Control procedures.....	20
B.5	Inspection and testing of constituents and mixtures during production	22
B.6	Inspection and testing equipment.....	23
B.7	Non-conformity	24

European foreword

This document (EN 14227-15:2015) 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 May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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 14227-10:2006, EN 14227-11:2006 (only the sections that cover stabilization), EN 14227-12:2006, EN 14227-13:2006 and EN 14227-14:2006.

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

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

EN 14227-2, *Hydraulically bound mixtures — Specifications — Part 2: Slag bound granular mixtures;*

EN 14227-3, *Hydraulically bound mixtures — Specifications — Part 3: Fly ash bound granular 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 granular mixtures;*

EN 14227-15, *Hydraulically bound mixtures — Specifications — Part 15: Hydraulically stabilized soils.*

Compared with EN 14227-10:2006 to EN 14227-14:2006, the following change has been made:

— These parts have been merged.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies hydraulically stabilized soils for roads, airfields and other trafficked areas and specifies the requirements for their constituents, composition and laboratory performance classification.

This European Standard covers the stabilization of soils using one or a combination of: cement, fly ash, hydraulic road binder, lime and blast-furnace slag.

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 459-1, *Building lime — Part 1: Definitions, specifications and conformity criteria*

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

EN 13282 (all parts), *Hydraulic road binders*

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

EN 14227-15:2015 (E)

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*

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

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

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 14227-2, *Hydraulically bound mixtures — Specifications — Part 2: Slag bound granular mixtures*

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

EN 15167-1, *Ground granulated blast furnace slag for use in concrete, mortar and grout — Part 1: Definitions, specifications and conformity criteria*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN