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Standards

Irish Standard  
I.S. EN 14227-3:2013

# Hydraulically bound mixtures - Specifications - Part 3: Fly ash bound granular mixtures

## I.S. EN 14227-3:2013

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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English Version

## Hydraulically bound mixtures - Specifications - Part 3: Fly ash bound granular mixtures

Mélanges traités aux liants hydrauliques - Spécifications -  
Partie 3: Mélanges granulaires traités à la cendre volante

Hydraulisch gebundene Gemische - Anforderungen - Teil 3:  
Flugaschegebundene Gemische

This European Standard was approved by CEN on 1 March 2013.

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## Foreword

This document (EN 14227-3:2013) 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of an identical text or by endorsement, at the latest by November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.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 14227-3:2004.

Compared with EN 14227-3:2004, the following changes have been made:

- Changing of the title;
- Revision of Clause 5 "Constituents";
- Revision of Clause 6 "Fly ash bound granular mixture";
- Inclusion of Clause 6.4 "Other requirements for the fresh mixture";
- Revision of Annex B (informative) "Examples of fly ash bound granular mixtures using siliceous fly ash";
- Revision of Annex C (informative) "Examples of fly ash bound granular mixtures using calcareous fly ash".

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*

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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 fly ash bound granular mixtures for roads, airfields and other trafficked areas, and specifies the requirements for their constituents, composition and laboratory performance classification.

In this European Standard, fly ash refers to siliceous or calcareous fly ash complying with EN 14227-4. Where fly ash is part of cement conforming to EN 197-1 or hydraulic road binder conforming to EN 13282-1 and EN 13282-2, then reference should be made to EN 14227-1 or EN 14227-5 respectively.

## 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 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 — Pyknometer 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*



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