

Binders for magnesite screeds — Caustic magnesia and magnesium chloride —

Part 1: Definitions, requirements

The European Standard EN 14016-1:2004 has the status of a British Standard

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National foreword

This British Standard is the official English language version of EN 14016-1:2004. EN 14016-1:2004 is a candidate “harmonized” European Standard and fully takes into account the requirements of the European Commission mandate M/132, *Floorings*, given under the EU Construction Products Directive (89/106/EEC), and intended to lead to CE marking. The date of applicability of EN 14016-1:2004 as a “harmonized” European Standard, i.e. the date after which this standard may be used for CE marking purposes, is subject to an announcement in the *Official Journal of the European Communities*.

The European Commission in consultation with Member States has agreed a transition period for the co-existence of “harmonized” European Standards and their corresponding national standard(s). It is intended that this period will comprise a period, usually nine months, after the date of availability of the European Standard, during which any required changes to national regulations are to be made, followed by a further period, usually of 12 months, for the implementation of CE marking. At the end of this co-existence period, the national standard(s) will be withdrawn. In the UK, there is no corresponding national standard.

The UK participation in the preparation of EN 14016-1:2004 was entrusted by Technical Committee B/507, Paving units, kerbs, screeds and in situ floorings, to Subcommittee B/507/6, Screeds and in situ floorings, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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This European Standard was approved by CEN on 15 September 2003.

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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.

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Foreword

This document (EN 14016-1:2004) has been prepared by Technical Committee CEN/TC 303, "Floor screeds and in-situ floorings in buildings", the secretariat of which is held by BSI.

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 July 2004, and conflicting national standards shall be withdrawn at the latest by October 2005.

This document belongs to a series of standards for screed material and floor screeds within building constructions.

No existing European Standard is superseded.

This document has been prepared under Mandate M 132 "Floorings" given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative annex ZA, which is an integral part of this document.

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

1 Scope

This European Standard specifies requirements for caustic magnesia and magnesium chloride, which will be used for magnesite screed material and magnesite screeds as specified in EN 13813.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 196-1, *Methods of testing cement — Part 1: Determination of strength*.

EN 13318:2000, *Screed materials and floor screeds — Definitions*.

EN 14016-2, *Binders for magnesite screeds — Caustic magnesia and magnesium chloride — Part 2: Test methods*.

EN 13501-1, *Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests*.

EN ISO 9001, *Quality management systems - Requirements (ISO 9001:2000)*.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13318:2000 and the following apply.

3.1

magnesium chloride

compound (magnesium chloride (MgCl_2)) which may contain water insoluble substances, e.g. ferrous oxide (Fe_2O_3) and magnesium oxide (MgO), as well as water-soluble substances, e.g. sodium chloride (NaCl), potassium chloride (KCl), calcium chloride (CaCl_2) and magnesium sulfate (MgSO_4); it is traded as solid salt or aqueous solution

3.2

caustic magnesia

a finely ground binder, which is burned out of naturally occurring magnesium carbonate MgCO_3 or other magnesium compounds; the main constituent of the caustic magnesia is magnesium oxide (MgO); sub-constituents may be carbonate (CO_3), silicic oxide (SiO_2), aluminium oxide (Al_2O_3), ferric oxide (Fe_2O_3), calcium oxide (CaO) and sulfate (SO_4)