



National Standards Authority of Ireland

STANDARD

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91.100.50

**BINDERS, COMPOSITE BINDERS AND
FACTORY MADE MIXTURES FOR FLOOR
SCREEDS BASED ON CALCIUM SULFATE -
PART 2: TEST METHODS**

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English version

**Binders, composite binders and factory made mixtures for floor
screeds based on calcium sulfate - Part 2: Test methods**

Liants, liants composites et mélanges fabriqués en usine à
base de sulfate de calcium pour chapes de sol - Partie 2:
Méthodes d'essai

Calciumsulfat-Binder, Calciumsulfat-Compositbinder und
Calciumsulfat-Werkmörtel für Estriche - Teil 2:
Prüfverfahren

This European Standard was approved by CEN on 1 September 2003.

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 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 Management Centre has the same status as the official versions.

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



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Foreword

This document (EN 13454-2:2003) has been prepared by Technical Committee CEN/TC 241 “Gypsum and gypsum based products”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

No existing European Standard is superseded.

The European Standard EN 13454 for binders, composite binders and factory made mixtures for floor screeds based on calcium sulfate consists of two parts:

Part 1: Definitions and requirements

Part 2: Test methods

The requirements in prEN 13454-1 are based on the results of tests according to EN 13454-2 on binders, composite binders and factory made mixtures for floor screeds based on calcium sulfate.

This European Standard describes test methods for binders, composite binders and factory made mixtures where the principal active component is calcium sulfate.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

EN 13454-2:2003 (E)

1 Scope

This European Standard describes the test methods for binders and composite binders for floor screeds based on calcium sulfate specified in prEN 13454-1.

This European Standard describes the test methods for factory made mixtures for floor screeds based on calcium sulfate specified in EN 13813.

This European Standard describes reference test methods. If other than these methods and conditions are used, it is necessary to show that they give results equivalent to those given by the reference methods. In the event of a dispute, only the reference test method is used.

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 196-1:1994, *Methods of testing cement – Part 1 : Determination of strength*.

EN 196-3:1994, *Methods of testing cement – Part3 : Determination of setting time and soundness*.

EN 196-7:1989, *Methods of testing cement – Part 7: Methods of taking and preparing samples of cement*.

EN 459-2:2001, *Building lime – Part 2 : Test methods*.

EN 13813, *Screed material and floor screeds - Screed material - Properties and requirements*.

EN 13892-1, *Methods of test for screed materials - Part 1: Sampling, making and curing specimens for test*.

3 Test conditions and sampling

3.1 General requirements for testing

3.1.1 Water

The water used for testing and chemical analyses shall be distilled or deionised.

Unless otherwise specified, the water temperature shall be the same as the air temperature in the laboratory.

3.1.2 Apparatus

The apparatus used for gauging and the moulds used for preparing the test specimens, shall be free from leaks and shall be manufactured from a water proof material which is non reactive to calcium sulfate (e.g. glass, brass, stainless steel, hardened steel, hard rubber and plastics etc.).

Since the characteristics of calcium sulfate are strongly influenced by the presence of particles of calcium sulfate dihydrate which can influence the setting time, all equipment used in the tests shall be kept in a perfect state of cleanliness.

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