

STN	Cement do mált na murovanie a omietky. Časť 2: Skúšobné metódy.	STN EN 413-2 72 2119
------------	--	--

Masonry cement - Part 2: Test methods

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. 03/17

Obsahuje: EN 413-2:2016

Oznámením tejto normy sa ruší
STN EN 413-2 (72 2119) z decembra 2005

124105

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2017
Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

EN 413-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2016

ICS 91.100.10

Supersedes EN 413-2:2005

English Version

Masonry cement - Part 2: Test methods

Ciment à maçonner - Partie 2 : Méthodes d'essai

Putz- und Mauerbinder - Teil 2: Prüfverfahren

This European Standard was approved by CEN on 18 June 2016.

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
Introduction	5
1 Scope	6
2 Normative references	6
3 General requirements for testing	6
3.1 Laboratory	6
3.2 Manufacturing tolerances for test equipment	6
3.2.1 Dimensions	6
3.2.2 Mass	6
3.3 Tolerances for test equipment in use	6
3.4 Number of tests	7
4 Determination of setting time	7
4.1 General	7
4.2 Method A	7
4.3 Method B	7
4.3.1 Test principle	7
4.3.2 Initial setting time procedure	7
4.3.3 Report - initial setting time	8
4.3.4 Final setting time procedure	8
4.3.5 Report - final setting time	8
4.3.6 Repeatability and reproducibility	8
5 Preparation of standard mortar	8
5.1 Principle	8
5.2 Consistence of fresh mortar by plunger apparatus (reference method)	8
5.2.1 Apparatus	8
5.2.2 Procedure	9
5.2.3 Reproducibility	9
5.3 Consistence of fresh mortar by flow table (alternative method)	9
5.3.1 Method	9
5.3.2 Apparatus	9
5.3.3 Calibration	9
5.3.4 Procedure	10
6 Determination of water retention	10
6.1 Principle	10
6.2 Preparation	10
6.3 Apparatus	12
6.4 Procedure	13
6.5 Repeatability and reproducibility	13
7 Determination of air content	14
7.1 General	14
7.2 Pressure method (reference method)	14
7.2.1 Principle	14
7.2.2 Apparatus	14
7.2.3 Calibration	14

7.2.4	Procedure	15
7.2.5	Repeatability and reproducibility	15
7.3	Alcohol method (alternative method)	16
7.3.1	Principle	16
7.3.2	Apparatus	16
7.3.3	Procedure	16
	Bibliography	18

European foreword

This document (EN 413-2:2016) has been prepared by Technical Committee CEN/TC 51 “Cement and building limes”, the secretariat of which is held by NBN.

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 February 2017, and conflicting national standards shall be withdrawn at the latest by February 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 413-2:2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

EN 413, Masonry cement, consists of the following parts:

- Part 1: Composition, specifications and conformity criteria;
- Part 2: Test methods.

The main differences between this document and EN 413-2:2005 are:

- updating of normative references;
- revised guidance on the properties of gauzes used in the water retention test;
- revised repeatability and reproducibility limits for setting time (Method B), water retention and air content (these revisions are based on a round-robin test programme instituted following the introduction of a new class of Masonry cement MC 22,5 into EN 413-1).

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.

Introduction

This European Standard includes additional test methods to those described in the EN 196 series, *Methods of testing cement*, that enable the performance of masonry cement to be assessed when used in mortar for bedding masonry units and for rendering and plastering.

1 Scope

This European Standard describes reference and alternative test methods to be used when testing masonry cements to assess their conformity to EN 413-1. It gives the tests on fresh mortar for consistence, water retention and air content.

In the event of a dispute, only the reference methods are used.

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

EN 196-3:2005+A1:2008, *Methods of testing cement - Part 3: Determination of setting times and soundness*

EN 459-2:2010, *Building lime - Part 2: Test methods*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN