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Standards

Irish Standard  
I.S. EN 480-13:2015

# Admixtures for concrete, mortar and grout - Test methods - Part 13: Reference masonry mortar for testing mortar admixtures

**I.S. EN 480-13:2015**

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

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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## Admixtures for concrete, mortar and grout - Test methods - Part 13: Reference masonry mortar for testing mortar admixtures

Adjuvants pour béton, mortier et coulis - Méthodes d'essai -  
Partie 13: Mortier à maçonner de référence pour les essais  
menés sur les adjuvants de mortier

Zusatzmittel für Beton, Mörtel und Einpressmörtel -  
Prüfverfahren - Teil 13: Referenz-Baumörtel für die Prüfung  
von Zusatzmitteln für Mauerwerksmörtel

This European Standard was approved by CEN on 10 April 2015.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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## **Foreword**

This document (EN 480-13:2015) has been prepared by Technical Committee CEN/TC 104 "Concrete and related products", 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of an identical text or by endorsement, at the latest by December 2015, and conflicting national standards shall be withdrawn at the latest by December 2015.

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 480-13:2009+A1:2011.

This standard differs from EN 480-13:2009+A1:2011 as follows:

- a) Subclause 3.1 has been updated with regard to requirements for the specific surface of cement used.
- b) It has been revised editorially.

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.

## EN 480-13:2015 (E)

### 1 Scope

This European Standard specifies the constituent materials, the composition and the mixing procedure to produce a reference masonry mortar with a prescribed consistence for testing mortar admixtures as defined in EN 934-3. It also describes the determination of the water reduction of the test mix compared to the control mix.

### 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 196-2, *Method of testing cement - Part 2: Chemical analysis of cement*

EN 196-6, *Methods of testing cement - Part 6: Determination of fineness*

EN 197-1, *Cement - Part 1: Composition, specifications and conformity criteria for common cements*

EN 934-3, *Admixtures for concrete, mortar and grout — Part 3: Admixtures for masonry mortar — Definitions, requirements, conformity, marking and labelling*

EN 1008, *Mixing water for concrete - Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete*

EN 1015-4, *Methods of test for mortar for masonry - Part 4: Determination of consistence of fresh mortar (by plunger penetration)*

EN 1015-7, *Methods of test for mortar for masonry - Part 7: Determination of air content of fresh mortar*

### 3 Constituent materials

#### 3.1 Cement

The reference masonry mortar shall be made with CEM I cement of strength class 42,5 or 52,5, conforming to EN 197-1.

The cement used shall have a C<sub>3</sub>A content of 7 % to 11 % by mass calculated from chemical analysis according to EN 196-2 and a specific surface of (3 200 to 4 600) cm<sup>2</sup>/g determined according to EN 196-6.

#### 3.2 Sand

A natural sand of normal density (relative density 2,5 – 2,8) shall be used. The size fractions of the sand shall comply with Table 1. The sand shall be used in an oven dry condition.

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