



**NSAI**  
Standards

Irish Standard  
I.S. EN 12004-2:2017

## Adhesives for ceramic tiles - Part 2: Test methods

## I.S. EN 12004-2:2017

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

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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*This document is based on:*

EN 12004-2:2017

*Published:*

2017-02-15

*This document was published under the authority of the NSAI and comes into effect on:*

2017-03-06

ICS number:

83.180

91.100.10

91.100.30

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 12004-2:2017 is the adopted Irish version of the European Document EN 12004-2:2017, Adhesives for ceramic tiles - Part 2: Test methods

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD

**EN 12004-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2017

ICS 83.180; 91.100.10; 91.100.30

Supersedes EN 12002:2008, EN 12003:2008, EN  
1308:2007, EN 1323:2007, EN 1324:2007, EN  
1346:2007, EN 1348:2007

English Version

## Adhesives for ceramic tiles - Part 2: Test methods

Colles à carrelage - Partie 2 : Méthodes d'essai

Mörtel und Klebstoffe für Fliesen und Platten - Teil 2:  
Prüfverfahren

This European Standard was approved by CEN on 15 July 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.

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## **EN 12004-2:2017 (E)**

### **European foreword**

This document (EN 12004-2:2017) has been prepared by Technical Committee CEN/TC 67 “Ceramic tiles”, the secretariat of which is held by UNI.

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 August 2017, and conflicting national standards shall be withdrawn at the latest by August 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 1308:2007, EN 1323:2007, EN 1324:2007, EN 1346:2007, EN 1348:2007, EN 12002:2008, EN 12003:2008.

EN 12004, Adhesives for tiles, is composed with the following parts:

- Part 1: Requirements, evaluation of conformity, classification and designation;
- Part 2: Test methods.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



## 1 Scope

This European Standard specifies the methods for determining characteristics for adhesives used in internal and external installation of ceramic tiles.

This European Standard does not contain performance requirements or recommendations for the design and installation of ceramic tiles.

The following test methods are described:

- determination of open time (8.1);
- determination of slip (8.2);
- determination of tensile adhesion strength for cementitious adhesives (8.3);
- determination of shear adhesion strength of dispersion adhesives (8.4);
- determination of shear adhesion strength of reaction resin adhesives (8.5);
- determination of transverse deformation of cementitious adhesives (8.6).

NOTE Ceramic tile adhesives can be used also for other kinds of tiles (natural and agglomerated stones, etc.), if they do not adversely affect the stones.

**WARNING — This European Standard can involve hazardous materials and operations. Persons using this standard should be familiar with normal laboratory practice. This European Standard does not purport to address all the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any European and national regulatory conditions.**

## 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 196-1:2016, *Methods of testing cement — Part 1: Determination of strength*

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

EN 1067, *Adhesives - Examination and preparation of samples for testing*

EN 12004-1, *Adhesives for ceramic tiles - Part 1: Requirements, assessment and verification of constancy of performance, classification and marking*

EN 14411, *Ceramic tiles - Definition, classification, characteristics, assessment and verification of constancy of performance and marking*

EN ISO 15605, *Adhesives - Sampling (ISO 15605)*

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