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BS EN 12004-2:2017



BSI Standards Publication

Adhesives for ceramic tiles

Part 2: Test methods

bsi.

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This British Standard is the UK implementation of EN 12004-2:2017. It supersedes BS EN 1308:2007, BS EN 1323:2007, BS EN 1324:2007, BS EN 1346:2007, BS EN 1348:2007, BS EN 12003:2008 and BS EN 12002:2008 which are withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/539, Ceramic tiles and other rigid tiling.

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

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

This European Standard was approved by CEN on 15 July 2016.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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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of an identical text or by endorsement, at the latest by August 2017, and conflicting national standards shall be withdrawn at the latest by August 2017.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.

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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)*