



**NSAI**  
Standards

Irish Standard  
I.S. EN 12004:2007+A1:2012

# Adhesives for tiles - Requirements, evaluation of conformity, classification and designation

## I.S. EN 12004:2007+A1:2012

*Incorporating amendments/corrigenda/National Annexes issued since publication:*  
EN 12004:2007+A1:2012

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English Version

**Adhesives for tiles - Requirements, evaluation of conformity,  
classification and designation**

Colles à carrelage - Exigences, évaluation de la conformité,  
classification et désignation

Mörtel und Klebstoffe für Fliesen und Platten -  
Anforderungen, Konformitätsbewertung, Klassifizierung und  
Bezeichnung

This European Standard was approved by CEN on 4 February 2007 and includes Amendment 1 approved by CEN on 13 May 2012.

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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## Foreword



This document (EN 12004:2007+A1:2012) 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of an identical text or by endorsement, at the latest by December 2012, and conflicting national standards shall be withdrawn at the latest by March 2014.

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 includes Amendment 1, approved by CEN on 2012-05-13.

This document supersedes  EN 12004:2007 .

The start and finish of text introduced or altered by amendment is indicated in the text by tags  .

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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## **Introduction**

It is essential that the characteristics of the construction products defined in this standard consider that the normal stresses due to the works for which they are intended, assembled or installed, can be properly accommodated. Some special characteristics will take into account the type of substrate and that the adhesives should resist the degrading actions of climate, etc.

Many properties of adhesives for tiling are mainly determined by the type of binders used.

Different types of tile adhesives are defined according to the chemical nature of their binders.

The different types have specific characteristics in terms of their application properties and final performance.

The relationship between characteristics and the working conditions (dry or humid conditions, hot climate, fast setting, etc.) is not given in this standard.

The manufacturer should give information about the use of the product and the correct conditions of use.

The specifier should evaluate the state of the job site (mechanical and thermal influences) and choose the appropriate product considering all the possible risks.

## 1 Scope

**A1** This European Standard is applicable to ceramic tile cementitious adhesives, dispersion adhesives and reaction resin adhesives for internal and external tile installations on walls and floors. **A1**

This standard gives the terminology concerning the products, working methods, application properties, etc, for ceramic tile adhesives.

This European Standard specifies the values of performance requirements for ceramic tile adhesives (cementitious, dispersion and reaction resin adhesives).

This European Standard does not provide criteria or recommendations for the design and installation of ceramic tiles.

NOTE Ceramic tile adhesives may also be used for other types of tiles (natural and agglomerated stones, etc.), if they do not adversely affect these materials.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1308, *Adhesives for tiles — Determination of slip*

EN 1324:2007, *Adhesives for tiles — Determination of shear adhesion strength of dispersion adhesives*

EN 1346, *Adhesives for tiles — Determination of open time*

EN 1347, *Adhesives for tiles — Determination of wetting capability*

EN 1348:2007, *Adhesives for tiles — Determination of tensile adhesion strength for cementitious adhesives*

EN 12002, *Adhesives for tiles — Determination of transverse deformation for cementitious adhesives and grouts*

**A1** EN 12003:2008 **A1**, *Adhesives for tiles — Determination of shear adhesion strength of reaction resin adhesives*

EN 12808-1, **A1** *Grouts for tiles — Part 1: Determination of chemical resistance of reaction resin mortars* **A1**

**A1** EN 13238, *Reaction to fire tests for building products — Conditioning procedures and general rules for selection of substrates* **A1**

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

**A1** EN 13823, *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*

EN 14411, *Ceramic tiles — Definitions, classification, characteristics and marking*

EN ISO 11925-2, *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)* **A1**

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