

**DIN EN 12004-1****DIN**

ICS 83.180; 91.100.10

Supersedes  
 DIN EN 12004:2014-02 and  
 DIN EN 12004  
 Corrigendum 1:2014-04  
 See start of application

**Adhesives for ceramic tiles –  
 Part 1: Requirements, assessment and verification of constancy of  
 performance, classification and marking;  
 English version EN 12004-1:2017,  
 English translation of DIN EN 12004-1:2017-05**

Mörtel und Klebstoffe für keramische Fliesen und Platten –  
 Teil 1: Anforderungen, Bewertung und Überprüfung der Leistungsbeständigkeit, Einstufung  
 und Kennzeichnung;  
 Englische Fassung EN 12004-1:2017,  
 Englische Übersetzung von DIN EN 12004-1:2017-05

Colles à carrelage –  
 Partie 1: Exigences, évaluation et vérification de la constance de performance, classification et  
 marquage;  
 Version anglaise EN 12004-1:2017,  
 Traduction anglaise de DIN EN 12004-1:2017-05

Document comprises 35 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

*A comma is used as the decimal marker.*

## **Start of application**

The start of application of this standard is 2017-05-01.

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the Official Journal of the European Union and from the date given therein. For further information, users of this standard should refer to the websites of the European Commission.

The standards which this document replaces, DIN EN 12004:2014-02 and DIN EN 12004 Corrigendum 1:2014-04, may be used in parallel with this standard during a specified transition period where such has been laid down in the Official Journal of the European Union.

## **National foreword**

This document (EN 12004-1:2017) has been prepared by Technical Committee CEN/TC 67 "Ceramic tiles" (Secretariat: UNI, Italy).

The responsible German body involved in its preparation was *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-09-82 AA "Ceramic tiles (national mirror committee for CEN/TC 67 and ISO/TC 189)".

## **Amendments**

This standard differs from DIN EN 12004:2014-02 und DIN EN 12004 Corrigendum 1:2014-04 as follows:

- a) in subclause 3.6.1, "fundamental" has been replaced by "basic" and in the German version, "*verbindlich*" has been replaced with "*wesentlich*";
- b) in Clause 4, Tables 1, 2 and 3 have been amended;
- c) a new Clause 5 has been included;
- d) a new Clause 6 in accordance with the CEN Guides has been included;
- e) a new Annex ZA (informative) in accordance with the Construction Products Regulation (Regulation (EU) No 305/2011) and with the Commission Delegated Regulations (EU) No 157/2014 regarding the DoP made available on websites, (EU) 574/2014 regarding the model of DoP and (EU) 568/2014 regarding the assessment and verification of constancy of performance.

## **Previous editions**

DIN 18156-1: 1977-04

DIN 18156-2: 1978-03

DIN 18156-3: 1980-07

DIN 18156-4: 1984-12

DIN EN 1322: 1997-03, 1999-03

DIN EN 12004: 2001-07, 2002-10, 2007-11, 2012-09, 2013-07, 2014-02

DIN EN 12004 Corrigendum 1: 2014-04

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 12004-1

February 2017

ICS 83.180; 91.100.10

Supersedes EN 12004:2007+A1:2012

English Version

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

Colles à carrelage - Partie 1: Exigences, évaluation et  
vérification de la constance de performance,  
classification et marquage

Mörtel und Klebstoffe für keramische Fliesen und  
Platten - Teil 1: Anforderungen, Bewertung und  
Überprüfung der Leistungsbeständigkeit, Einstufung  
und Kennzeichnung

This European Standard was approved by CEN on 28 November 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, Serbia, 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
<b>European foreword.....</b>	<b>4</b>
<b>Introduction .....</b>	<b>5</b>
<b>1 Scope.....</b>	<b>6</b>
<b>2 Normative references.....</b>	<b>6</b>
<b>3 Terms and definitions .....</b>	<b>6</b>
<b>3.1 General.....</b>	<b>6</b>
<b>3.2 Products.....</b>	<b>7</b>
<b>3.3 Tools and working methods.....</b>	<b>7</b>
<b>3.4 Application properties .....</b>	<b>7</b>
<b>3.5 Final properties .....</b>	<b>8</b>
<b>3.6 Characteristics .....</b>	<b>8</b>
<b>4 Product characteristic.....</b>	<b>9</b>
<b>4.1 Cementitious adhesives (C) .....</b>	<b>9</b>
<b>4.2 Dispersion adhesives (D) .....</b>	<b>11</b>
<b>4.3 Reaction resin adhesives (R) .....</b>	<b>11</b>
<b>4.4 Reaction to fire .....</b>	<b>12</b>
<b>4.4.1 General.....</b>	<b>12</b>
<b>4.4.2 Adhesives classified as Class A1 without the need for testing (CWT) .....</b>	<b>12</b>
<b>4.4.3 Adhesives classified as class E without the need for further testing (CWFT) .....</b>	<b>12</b>
<b>4.4.4 Adhesives classified according to the test results.....</b>	<b>13</b>
<b>4.5 Resistance to chemical attack.....</b>	<b>13</b>
<b>4.6 Release of dangerous substances.....</b>	<b>14</b>
<b>5 Testing, assessment and sampling methods .....</b>	<b>14</b>
<b>6 Assessment and verification of constancy of performance (AVCP) .....</b>	<b>14</b>
<b>6.1 General.....</b>	<b>14</b>
<b>6.2 Type testing.....</b>	<b>14</b>
<b>6.2.1 General.....</b>	<b>14</b>
<b>6.2.2 Test samples, testing and compliance criteria .....</b>	<b>15</b>
<b>6.2.3 Test reports .....</b>	<b>17</b>
<b>6.2.4 Shared other party results .....</b>	<b>17</b>
<b>6.3 Factory production control (FPC) .....</b>	<b>17</b>
<b>6.3.1 General.....</b>	<b>17</b>
<b>6.3.2 Requirements .....</b>	<b>18</b>
<b>6.3.3 Product specific requirements .....</b>	<b>21</b>
<b>6.3.4 Initial inspection of factory and of FPC .....</b>	<b>22</b>
<b>6.3.5 Continuous surveillance of FPC .....</b>	<b>22</b>
<b>6.3.6 Procedure for modifications .....</b>	<b>22</b>
<b>6.3.7 One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity .....</b>	<b>23</b>
<b>7 Classification and designation.....</b>	<b>23</b>
<b>8 Marking and labelling.....</b>	<b>26</b>