

**SLOVENSKI STANDARD**  
**SIST EN 12004:2002/A1:2002**  
**01-november-2002**

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**Lepila in malte za ploščice - Definicije in specifikacije**

Adhesives for tiles - Definitions and specifications

Mörtel und Klebstoffe für Fliesen und Platten - Definitionen und Spezifikationen

Colles a carrelage - Définitions et spécifications

**Ta slovenski standard je istoveten z: EN 12004:2001/A1:2002**

[SIST EN 12004:2002/A1:2002](https://standards.iteh.ai/catalog/standards/sist/69aaad51-7e90-4a16-b851-dc3c35aaf7c7/sist-en-12004-2002-a1-2002)

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**ICS:**

83.180	Lepila	Adhesives
91.100.10	Cement. Mavec. Apno. Malta	Cement. Gypsum. Lime. Mortar
91.100.23	Keramične ploščice	Ceramic tiles

**SIST EN 12004:2002/A1:2002** en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12004:2001/A1**

June 2002

ICS 83.180; 91.100.10

English version

## Adhesives for tiles - Definitions and specifications

Colles à carrelage - Définitions et spécifications

Mörtel und Klebstoffe für Fliesen und Platten - Definitionen und Spezifikationen

This amendment A1 modifies the European Standard EN 12004:2001; it was approved by CEN on 11 April 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 12004:2001/A1:2002 (E)

## Foreword

This document (EN 12004:2001/A1:2002) has been prepared by 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 2002, and conflicting national standards shall be withdrawn at the latest by March 2004.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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**Annex ZA**  
**(informative)**  
**Adhesives for tile- Definitions and specifications**  
**Clauses of this European Standard addressing the provisions of the EU**  
**Construction Products Directive (89/106).**

### Scope

With reference to clause 1, this annex ZA applies to adhesives for use in construction field for fixing the upper finishing of flooring and wall (internal and external) executed with ceramic, natural stones tiles and assimilated product finishes.

Are excluded adhesives for other finishes of flooring and walls like rubber, plastic, textiles tiles or sheets.

### ZA.1. Clauses of this European Standard addressing the provisions of the EU Construction Products Directive

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

The clauses of this European Standard, shown in the table below, meet the requirements of the Mandate M/127 Construction adhesive given under the EU Construction Products Directive (89/106/EEC).

Compliance with these clauses confers a presumption of fitness of the construction product covered by this European Standard for its intended use(s).

<https://standards.iteh.ai/catalog/standards/sist/69aaad51-7e90-4a16-b851-1c3e25ee7701/en-12004-2002-rt-2002>

**WARNING: Other requirements and other EU Directives, not affecting the fitness for intended use(s), can be applicable to the construction products falling within the scope of this European Standard.**

#### NOTE

In addition to any specific clauses relating to dangerous substances contained in this European Standard, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the EU Construction Products Directive, these requirements need also to be complied with, when and where they apply. An informative database of European and national provisions on dangerous substances is available at the Construction web site on EUROPA (CREATE, accessed through <http://europa.eu.int>).

**Construction Product(s):** Adhesives for tiles in form of (see clause 3.2):

- Cementitious adhesives
- Dispersion adhesive
- Reaction resin adhesives

Note: ceramic tile adhesives may also be used for other types of tiles (natural and agglomerated stones, etc.), where these do not adversely affect the materials:

**Intended use(s):** internal and external floorings and internal and external wall and ceiling finishes.

Table ZA.1 Relevant clauses

List of requirements /characteristics considered in the mandate M/127	Requirements, clause in this or other European standards	Mandated levels and/or classes	Notes Test method
<b>Bond strength</b> ( <i>shear adhesion, tensile adhesion, etc.</i> )	<b>a) for cementitious adhesives:</b> - initial and early tensile adhesion strength: clause 4.1, table 1 <b>b) for dispersion adhesives:</b> - initial shear adhesion strength: clause 4.2, table 2 <b>c) for reaction resin adhesives:</b> - initial shear adhesion strength: clause 4.3, table 3		EN 1348, p.8.2  EN 1324, p.7.2  EN 12003, p.7.2
<b>Durability</b>			
<b>Climate/heat ageing action</b>	<b>a) for cementitious adhesives:</b> - tensile adhesion strength after climate/heat ageing action: Declared value ... (*) or NPD(*) <b>b) for dispersion adhesives:</b> - shear adhesion strength after climate/heat ageing action, and - shear adhesion strength at elevated temperatures: clause 4.2, table 2 <b>c) for reaction resin adhesives:</b> - shear adhesion strength after thermal shock: clause 4.3, table 3		EN 1348, p.8.4  EN 1324, p.7.4  EN 1324: p.7.5  EN 12003, p.7.5
<b>Water humidity action</b>	<b>a) for cementitious adhesives:</b> - tensile adhesion strength after water immersion: clause 4.1, table 1 <b>b) for dispersion adhesives:</b> - shear adhesion strength after water immersion: clause 4.2, table 2 <b>c) for reaction resin adhesives:</b> - shear adhesion strength after water immersion: clause 4.3, table 3		EN 1348, p.8.3  EN 1324, p.7.3  EN 12003, p.7.4
<b>Freeze-thaw cycle</b>	<b>for cementitious adhesives:</b> - tensile adhesion strength after freeze-thaw cycle: Declared value ... (*) or NPD(*)		EN 1348, p.8.5
<b>Chemical attack</b>	<b>for reaction resin adhesives:</b> - chemical resistance: clause 4.3, table 3		EN 12808-1
(*) See note to Table ZA.3.2			

## ZA.2 Procedures for the attestation of conformity of products:

Adhesive for the intended use listed above, shall follow the system of attestation of conformity shown in table ZA.2

Table ZA.2 Attestation of conformity systems

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
<b>Adhesives for tiles</b>	Construction uses	---	3(*)
(*) System 3: see CPD Annex III.2.(ii), second possibility			

The evaluation of conformity of the adhesives for tiles, covered by this standard, in respect of the characteristics identified in table ZA.1, shall be in accordance with the relevant provisions of clause 5.

## ZA.3 CE marking and labelling

### ZA.3.1 CE marking

The CE conformity marking, consists exclusively of the letters "CE" in the specified form of the directive 93/68/EEC and the identification number of the notified body, where relevant.

CE marking for construction adhesives shall be accompanied by the information shown below:

- CE marking (reproducing the logo of the CPD);
- the name or identifying mark of the producer;
- the last two digits of the year in which the marking was affixed;
- reference to this EN 12004;
- the product name and description
- end use
- the indications to identify the characteristics of the products on the basis of the technical specifications (see table ZA.1).

### ZA.3.2 Example of reference model for the marking and labelling

<b>CE</b> Year: 01	Reference standard: EN 12004 type of adhesive: cementitious adhesive End uses: internal/external floorings or wall finishes*	
Name and address of the producer: (a.1) 004-2002-a1-2002		
<b>List of the characteristics</b>	<b>Declared values</b>	<b>Test methods</b>
<b>Bond strength</b> ( <i>shear adhesion, tensile adhesion, etc.</i> )	- Initial tensile adhesion strength: <b>Type C1T of EN 12004</b> - Early tensile adhesion strength: <b>Type C1T of EN 12004</b>	EN 1348, clause 8.2
Durability :		
Climate/heat ageing action	-Tensile adhesion strength after heat ageing: <b>Type C1T of EN 12004</b> or <b>declared value ... N/mm<sup>2</sup>(*)</b> or <b>NPD (*)</b>	EN 1348, clause 8.4
Water humidity action	- Tensile adhesion strength after water immersion : <b>Type C1T of EN 12004</b>	EN 1324, clause 7.3
Freeze-thaw cycle	- tensile adhesion strength after freeze-thaw cycles: <b>Type C1T of EN 12004</b> or <b>declared value ... N/mm<sup>2</sup>(*)</b> or <b>NPD (*)</b>	EN 1348, clause 8.5
(*) Where the manufacturer uses the NPD ( No Performance Determined) option for climate/heat ageing and/or for freeze- thaw cycling, or where the declared value does not meet the requirement of the standard, the end uses shall say "not suitable for external uses"		

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In addition to any specific information relating to dangerous substances shown above, the product should also be accompanied, when and where required and in the appropriate form, by documentation listing any other legislation on dangerous substances for which compliance is claimed, together with any information required by that legislation.

*Note - European legislation without national derogations need not be mentioned.*

**ZA.4 EC Declaration of conformity**

When compliance with this Annex is achieved, the manufacturer or his agent established in the EEA shall prepare and retain a declaration of conformity (EC Declaration of conformity), which authorises the affixing of the CE marking. This declaration shall include:

- name and address of the manufacturer, or his authorised representative established in the EEA, and place of production;
- description of the product (type, identification, use ...), and a copy of the information accompanying the CE marking;
- provisions to which the product conforms (e.g. Annex ZA of this EN);
- particular conditions applicable to the use of the product (e.g. provisions for use under certain conditions, etc.);
- name of, and position held by, the person empowered to sign the declaration on behalf of the manufacturer or of his authorised representative.

The above mentioned declaration shall be presented in the official language or languages of the Member State in which the product is to be used.

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