

Australian Standard<sup>®</sup>

**Ceramic tiles—Grouts and adhesives**

**Part 1: Terms, definitions and  
specifications for adhesives**



This Australian Standard® was prepared by Committee BD-044, Fixing of Ceramic Natural and Reconstituted Stone Tiles. It was approved on behalf of the Council of Standards Australia on 29 September 2006.

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The following are represented on Committee BD-044:

- Association of Consulting Engineers Australia
  - Australian Building Codes Board
  - Australian Chamber of Commerce and Industry
  - Australian Industry Group
  - Australian Stone and Terrazzo Association
  - Australian Tile Council
  - CSIRO Manufacturing and Infrastructure Technology
  - Ceramic Tile Manufacturers Association
  - Department of Fair Trading NSW
  - Importers, Distributors and Sealants Manufacturers Association of Australia
  - Master Builders Australia
  - Master Glazed Wall and Floor Tile Layers Association of SA
  - Opus International Consultants, New Zealand
  - Plastics and Chemical Industries Association
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee.

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## **Ceramic tiles—Grouts and adhesives**

### **Part 1: Terms, definitions and specifications for adhesives**

Originated as AS 4992.1(Int)—2003.  
Redesignated AS 4992.1—2006.  
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## PREFACE

This Standard was prepared by the Standards Australia Committee BD-044, Fixing of Ceramic Natural and Reconstituted Stone Tiles to supersede AS 4992.1 (Int)—2003, *Ceramic tiles: Products for installation, Definitions and specifications*.

*This Standard incorporates Amendment No. 1 (August 2008). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this Standard is to provide users of tile adhesives with specifications covering the performance requirements of adhesives.

This Standard is identical with, and has been reproduced from ISO 13007-1:2004, *Ceramic tiles—Grouts and adhesives, Part 1: Terms, definitions and specifications for adhesives*.

This Standard is Part 1 in a series of Standards on products for the installation of ceramic tiles, as follows:

AS

- 4992 Ceramic tiles—Grouts and adhesive.
- 4992.1 Part 1: Adhesives—Terms, definitions and specification for adhesives (this Standard)
- 4992.2 Part 2: Adhesives—Test methods for adhesives
- 4992 Ceramic tiles—Products for installation
- 4992.3 Part 3: Grouts—Definitions and specification
- 4992.4 Part 4: Grouts—Test methods

The characteristics of the construction products defined in this Standard have been developed to accommodate the stresses due to the structure for which they are intended. Some special characteristics will take into account the type of substrate and that the adhesives must resist the degrading actions of climate, etc.

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

Definition of adhesives depends on the chemical nature of the binder. The different types have specific characteristics in terms of 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.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) A full point should be substituted for a comma when referring to a decimal marker.
- (c) In the source text 'ISO 13007-1' should read 'AS 4992.1 and ISO 13007-2' should read AS 4992.2.
- (d) Page 7, Table 7 column 4 correct 'u 5 mm' to read ' $\leq 0.5$  mm'.
- (e) Replace reference to international standard with the following Australian Standard:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO	AS
13007 Ceramic tiles—Grouts and adhesives	4992 Ceramic tiles—Grouts and adhesives
13007-2 Part 2: Test methods for adhesives	4992.2 Part 2: Test methods for adhesives

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## STANDARDS AUSTRALIA

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**Australian Standard****Ceramic tiles—Grouts and adhesives—Part 1: Terms, definitions and specifications for adhesives**

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**1 Scope**

This part of ISO 13007 is applicable to ceramic tile adhesives for internal and external tile installations on walls and floors.

This part of ISO 13007 establishes the terminology, concerning the products, working methods, application properties, etc., for ceramic tile adhesives.

This part of ISO 13007 specifies the values of performance requirements for all ceramic tile adhesives [cementitious (C), dispersion (D) and reaction resin (R) adhesives].

This part of ISO 13007 does not contain criteria or recommendations for the design and installation of ceramic tiles.

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

ISO 13007-2:—<sup>1)</sup>, *Ceramic tiles — Grouts and adhesives — Part 2: Test methods for adhesives*

**3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

**3.1  
substrate**

fixing surface  
surface upon which the tile is installed (fixed)

**3.2  
wall and floor tiles**

tiles made out of ceramic or natural and agglomerated stones

NOTE See ISO 13006 for the definition of ceramic tiles.

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1) To be published.