INTERNATIONAL STANDARD

ISO 13007-3

Second edition
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Ceramic tiles — Grouts and adhesives —

Part 3: Terms, definitions and specifications for grouts

Carreaux céramiques — Mortiers de joints et colles —

Partie 3: Termes, définitions et spécifications relatives aux mortiers de joints

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13007-3 was prepared by Technical Committee ISO/TC 189, *Ceramic tiles*.

This second edition cancels and replaces the first edition (ISO 13007-3:2004), which has been technically revised.

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ISO 13007 consists of the following parts, under the general title *Ceramic tiles — Grouts and adhesives*:

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

— *Part 2: Test methods for adhesives*

— *Part 3: Terms, definitions and specifications for grouts*

— *Part 4: Test methods for grouts*

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Introduction

The characteristics of the construction products defined in this part of ISO 13007 have been developed to accommodate the stresses due to the structure for which they are intended. Some special characteristics take into account the type of substrate and the necessity for the grouts to resist degradation due to climatic conditions, etc. Many properties of grouts for tiling are mainly determined by the type of binder used.

Tile grouts are classified in different types depending on the chemical nature of their binders. The types have specific characteristics in terms of application properties and final performance. The relationship between the characteristics and the working conditions (dry or humid conditions, hot climate, fast-setting, etc.) is not given in this part of ISO 13007.

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Ceramic tiles — Grouts and adhesives —

Part 3:
Terms, definitions and specifications for grouts

1 Scope

This part of ISO 13007 defines terms concerning the products, working methods and application properties for ceramic tile grouts. It specifies values of performance requirements for all ceramic tile grouts [cementitious (CG) and reaction resin (RG) grouts].

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

It is not applicable to criteria or recommendations for the design and installation of ceramic tiles.

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

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2 Normative references

ISO 13007-3:2010
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ISO 13007-3:2010

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 13006, *Ceramic tiles — Definitions, classification, characteristics and marking*

ISO 13007-1:2010, *Ceramic tiles — Grouts and adhesives — Part 1: Terms, definitions and specifications for adhesives*

ISO 13007-4, *Ceramic tiles — Grouts and adhesives — Part 4: Test methods for grouts*

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13006 and the following apply.

3.1
wall and floor tile
tile made out of ceramic or natural and agglomerated stones

See ISO 13006 for definitions and specifications of ceramic tile.

3.2
grouting a tile surface
process of filling the joints between all types of tiles, with the exception of movement joints

3.3
tile grout
any suitable product used to fill the joints between all types of tile

3.4
cementitious grout
CG
mixture of hydraulic binding agents, aggregates, inorganic and organic additives, as defined in ISO 13007-1:2010, 3.3

3.5
reaction resin grout
RG
single or multi-component mixture of synthetic resin, aggregates, inorganic and organic additives in which hardening occurs by chemical reaction, as defined in ISO 13007-1:2010, 3.5

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3.6
liquid admix
special aqueous polymer dispersion mixed with a cementitious grout on site

3.7
working method
method used for filling the joints between tiles and cleaning the tiles

3.8
shelf life
time of storage under stated conditions during which a grout can be expected to maintain its working properties

3.9
maturing time
interval between the time when the grout is mixed and the time when it is ready for use

3.10
pot life
maximum time interval during which the grout can be used after mixing

3.11
grouting time
minimum time interval after installation of tiles, after which the grout can be applied into the joints

3.12
cleaning time
time interval between filling the joints and starting to clean the tiles

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3.13
service time
minimum time after which the completed tile installation can be put into service

3.14
flexural strength
value at which grout fails as determined by exerting a force in flexure at three points

3.15
compressive strength
value at which grout fails determined by exerting a force in compression at two opposite points

3.16
water absorption
amount of water absorbed by capillary action when a single end surface of the grout prism is in contact with water

3.17
shrinkage
reduction in volume of a grout during hardening

3.18
abrasion resistance
capability of a grout to resist wear

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3.19
transverse deformation
deflection recorded at the centre of a beam of hardened grout when it is subjected to three point loading

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3.20
chemical resistance
capability of a grout to resist chemical agents

3.21
fundamental characteristic
characteristic that is absolutely required of a grout

3.22
additional characteristic
characteristic of a grout for specific service conditions where enhanced levels of performance are required

3.23
special characteristic
characteristic of a grout which provides further information about its general performance

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