



SLOVENSKI STANDARD
SIST EN ISO 10545-14:2015
01-december-2015

Nadomešča:
SIST EN ISO 10545-14:1998

Keramične ploščice - 14. del: Ugotavljanje odpornosti proti madežem (ISO 10545-14:2015)

Ceramic tiles - Part 14: Determination of resistance to stains (ISO 10545-14:2015)

Keramische Fliesen und Platten - Teil 14: Bestimmung der Beständigkeit gegen Fleckenbildner (ISO 10545-14:2015)

(standards.iteh.ai)

Carreaux et dalles céramiques - Partie 14 : Détermination de la résistance aux taches (ISO 10545-14:2015)

[SIST EN ISO 10545-14:2015
https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015](https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015)

Ta slovenski standard je istoveten z: EN ISO 10545-14:2015

ICS:

91.100.23 Keramične ploščice Ceramic tiles

SIST EN ISO 10545-14:2015 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 10545-14:2015

<https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>

EUROPEAN STANDARD

EN ISO 10545-14

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2015

ICS 91.100.23

Supersedes EN ISO 10545-14:1997

English Version

Ceramic tiles - Part 14: Determination of resistance to stains (ISO 10545-14:2015)

Carreaux et dalles céramiques - Partie 14 :
Détermination de la résistance aux taches (ISO 10545-
14:2015)

Keramische Fliesen und Platten - Teil 14: Bestimmung
der Beständigkeit gegen Fleckenbildner (ISO 10545-
14:2015)

This European Standard was approved by CEN on 31 July 2015.

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, 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

European foreword..... 3

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

SIST EN ISO 10545-14:2015
<https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>

European foreword

This document (EN ISO 10545-14:2015) has been prepared by Technical Committee ISO/TC 189 “Ceramic tile” in collaboration with 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 April 2016, and conflicting national standards shall be withdrawn at the latest by April 2016.

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 supersedes EN ISO 10545-14:1997.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

[SIST EN ISO 10545-14:2015](https://standards.iteh.ai/catalog/standards/sist/55e02316-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015)

<https://standards.iteh.ai/catalog/standards/sist/55e02316-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>

Endorsement notice

The text of ISO 10545-14:2015 has been approved by CEN as EN ISO 10545-14:2015 without any modification.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 10545-14:2015](https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015)

<https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>

INTERNATIONAL
STANDARD

ISO
10545-14

Second edition
2015-09-15

Ceramic tiles —

**Part 14:
Determination of resistance to stains**

Carreaux et dalles céramiques —

Partie 14: Détermination de la résistance aux taches

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 10545-14:2015](https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015)

<https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>



Reference number
ISO 10545-14:2015(E)

© ISO 2015

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 10545-14:2015
<https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
1 Scope	1
2 Normative reference	1
3 Principle	1
4 Staining agents	1
4.1 Stains leaving a trace (pastes).....	1
4.2 Stains having chemical/oxidizing action.....	1
4.3 Stains forming a film.....	1
5 Cleaning	2
5.1 Cleaning agents.....	2
5.2 Cleaning procedures and apparatus.....	2
5.2.1 Procedure A.....	2
5.2.2 Procedure B.....	2
5.2.3 Procedure C.....	2
5.2.4 Procedure D.....	2
5.3 Auxiliary apparatus.....	3
6 Test specimens	3
7 Procedure	3
7.1 Application of the staining agent.....	3
7.2 Attempts to remove stains.....	3
8 Classification of results	3
9 Test report	4
Annex A (normative) Specifications for “green staining agent in light oil”	6
Annex B (normative) Specifications for “red staining agent in light oil”	7
Annex C (normative) Example of preparation of test solutions	8

ISO 10545-14:2015(E)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](http://standards.iteh.ai/Foreword-Supplementary-information)

The committee responsible for this document is ISO/TC 189, *Ceramic tiles*

This second edition cancels and replaces the first edition (ISO 10545-14:1995), which has been technically revised. It also incorporates the Technical Corrigendum ISO 10545-14:1995/Cor.1:1997.

ISO 10545 consists of the following parts, under the general title *Ceramic tiles*:

- *Part 1: Sampling and basis for acceptance*
- *Part 2: Determination of dimensions and surface quality*
- *Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density*
- *Part 4: Determination of modulus of rupture and breaking strength*
- *Part 5: Determination of impact resistance by measurement of coefficient of restitution*
- *Part 6: Determination of resistance to deep abrasion for unglazed tiles*
- *Part 7: Determination of resistance to surface abrasion for glazed tiles*
- *Part 8: Determination of linear thermal expansion*
- *Part 9: Determination of resistance to thermal shock*
- *Part 10: Determination of moisture expansion*
- *Part 11: Determination of crazing resistance for glazed tiles*
- *Part 12: Determination of frost resistance*
- *Part 13: Determination of chemical resistance*
- *Part 14: Determination of resistance to stains*
- *Part 15: Determination of lead and cadmium given off by glazed tiles*

— *Part 16: Determination of small colour differences*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 10545-14:2015
<https://standards.iteh.ai/catalog/standards/sist/55a023c6-8a77-46c9-9392-5d48e12165fc/sist-en-iso-10545-14-2015>