



**SLOVENSKI STANDARD**  
**SIST EN ISO 15110:2017**

**01-december-2017**

**Nadomešča:**  
**SIST EN ISO 15110:2013**

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**Barve in laki - Umetno vremensko staranje, vključno s kislimi padavinami (ISO 15110:2017)**

Paints and varnishes - Artificial weathering including acidic deposition (ISO 15110:2017)

Beschichtungsstoffe - Künstliches Bewittern mit saurer Beanspruchung (ISO 15110:2017)

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Peintures et vernis - Vieillissement artificiel comportant un dépôt acide (ISO 15110:2017)

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**Ta slovenski standard je istoveten z: EN ISO 15110:2017**

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Barve in laki

Paints and varnishes

**SIST EN ISO 15110:2017**

**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 15110**

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English Version

## Paints and varnishes - Artificial weathering including acidic deposition (ISO 15110:2017)

Peintures et vernis - Vieillessement artificiel  
comportant un dépôt acide (ISO 15110:2017)

Beschichtungsstoffe - Künstliches Bewittern mit saurer  
Beanspruchung (ISO 15110:2017)

This European Standard was approved by CEN on 1 July 2017.

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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.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN ISO 15110:2017) has been prepared by Technical Committee ISO/TC 35 “Paints and varnishes” in collaboration with Technical Committee CEN/TC 139 “Paints and varnishes” the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by March 2018, and conflicting national standards shall be withdrawn at the latest by March 2018.

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

This document supersedes EN ISO 15110:2013.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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INTERNATIONAL  
STANDARD

ISO  
15110

Second edition  
2017-07

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**Paints and varnishes — Artificial  
weathering including acidic  
deposition**

*Peintures et vernis — Vieillessement artificiel comportant un dépôt  
acide*

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## ISO 15110:2017(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](http://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](http://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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html). (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 15110:2013), which has been technically revised. The main changes compared to the previous edition are as follows:

- the scope has been restricted to paints and varnishes;
- the black panel thermometer has been added for fluorescent UV lamps, since it gives equivalent results to BST UV-F devices;
- exposure with uncontrolled humidity has been included as a new type U ADF test, since it has been shown that control of humidity does not affect type of pinpoint damage resulting from this test.

## Introduction

This document specifies a method of simulating the damaging effect of outdoor weathering with relevance to acidic atmospheric precipitation on painted products. The mechanisms differ from those of harmful gases, which essentially constitute the initial products of acidic precipitation.

Arising from changing industrial air pollution and additionally diffused by the stochastic wind and cloud distribution, acidic precipitation occurs sporadically. Thus, especially regarding acidic precipitation, outdoor weathering effects vary enormously within different years. Therefore, it is practically impossible to obtain reliable outdoor exposure results from just one season. These fluctuations can be avoided through the use of a laboratory test where all weathering parameters, including the acidic deposition, can be controlled.

The method is based on VDI Guideline VDI 3958-12[9].

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