



SLOVENSKI STANDARD SIST EN ISO 15110:2013

01-julij-2013

**Barve in laki - Umetno klimatsko preskušanje, vključno s kislinskimi usedlinami
(ISO 15110:2013)**

Paints and varnishes - Artificial weathering including acidic deposition (ISO 15110:2013)

Beschichtungsstoffe - Künstliches Bewittern mit saurer Beanspruchung (ISO
15110:2013)

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Peintures et vernis - Viellissement artificiel déposition acide inclus (ISO 15110:2013)

Ta slovenski standard je istoveten z: EN ISO 15110:2013

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ICS:

87.040

Barve in laki

Paints and varnishes

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en,fr,de

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EUROPEAN STANDARD

EN ISO 15110

NORME EUROPÉENNE

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ICS 87.040

English Version

Paints and varnishes - Artificial weathering including acidic deposition (ISO 15110:2013)

Peintures et vernis - Vieillessement artificiel comportant un dépôt acide (ISO 15110:2013)

Beschichtungsstoffe - Künstliches Bewittern mit saurer Beanspruchung (ISO 15110:2013)

This European Standard was approved by CEN on 2 February 2013.

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Foreword

This document (EN ISO 15110:2013) 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of an identical text or by endorsement, at the latest by September 2013, and conflicting national standards shall be withdrawn at the latest by September 2013.

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.

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INTERNATIONAL
STANDARD

ISO
15110

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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 15110:2013(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.

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 15110 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

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Introduction

This International Standard specifies a method of simulating the damaging effect of outdoor weathering with relevance to acidic atmospheric precipitation on polymeric products. In addition to the classical environmental variables of temperature and humidity, acidic atmospheric precipitation can also have a significant effect on the photochemical ageing of polymers, e.g. by attacking the stabilizers. 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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