



# SLOVENSKI STANDARD SIST EN ISO 2810:2020

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Nadomešča:  
SIST EN ISO 2810:2005

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**Barve in laki - Naravno staranje premazov - Izpostavljanje in ocenjevanje (ISO 2810:2020)**

Paints and varnishes - Natural weathering of coatings - Exposure and assessment (ISO 2810:2020)

Beschichtungsstoffe - Freibewitterung von Beschichtungen - Bewitterung und Bewertung (ISO 2810:2020)

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Peintures et vernis - Vieillissement naturel des revêtements - Exposition et évaluation (ISO 2810:2020)

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**Ta slovenski standard je istoveten z: EN ISO 2810:2020**

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**ICS:**

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Barve in laki

Paints and varnishes

**SIST EN ISO 2810:2020**

**en,fr,de**

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EUROPEAN STANDARD

EN ISO 2810

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN ISO 2810:2004

English Version

## Paints and varnishes - Natural weathering of coatings - Exposure and assessment (ISO 2810:2020)

Peintures et vernis - Vieillissement naturel des  
revêtements - Exposition et évaluation (ISO  
2810:2020)

Beschichtungsstoffe - Freibewitterung von  
Beschichtungen - Bewitterung und Bewertung (ISO  
2810:2020)

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## European foreword

This document (EN ISO 2810:2020) 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of an identical text or by endorsement, at the latest by March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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 2810:2004.

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INTERNATIONAL  
STANDARD

ISO  
2810

Third edition  
2020-09

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**Paints and varnishes — Natural  
weathering of coatings — Exposure  
and assessment**

*Peintures et vernis — Vieillessement naturel des revêtements —  
Exposition et évaluation*

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## ISO 2810:2020(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 of 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 [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 2810:2004), which has been technically revised. The main changes compared to the previous edition are as follows:

- in [Clause 4](#), the list in b) has been amended by radiant exposure and temperature;
- the time of wetness has been deleted from the list of additional observations on climate in [A.2](#) and replaced by a note with the reference to ASTM Practice G84;
- the climate classification in [Annex B](#) has been updated to ISO 877-1:2009;
- the text has been editorially revised and the normative references have been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Paints and varnishes — Natural weathering of coatings — Exposure and assessment

## 1 Scope

This document specifies the conditions to take into consideration when selecting the type of natural weathering and the natural weathering procedure to determine the resistance of coatings or coating systems (direct weathering or weathering behind window glass).

Natural weathering is used to determine the resistance of coatings or coating systems (denoted in this document by coatings) to the sun's radiation and the atmosphere.

This document does not take into account special atmospheric influences, e.g. industrial pollution.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1514, *Paints and varnishes — Standard panels for testing*

ISO 2808, *Paints and varnishes — Determination of film thickness*

ISO 4618, *Paints and varnishes — Terms and definitions*

WMO Publication No. 8, *Guide to meteorological instruments and methods of observation*, World Meteorological Organization, Geneva, 2012

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### durability

ability of a specimen to resist the deleterious effect of its environment

### 3.2

#### time of wetness

period during which an exposed coating has surface moisture present on it

## 4 General

The durability of a coating during natural weathering depends on how, where and when the coating is weathered. Therefore, these parameters and the intended use of the coating shall be taken into account when exposures are carried out.