Paints and varnishes - Lighting and procedure for visual assessments of coatings (ISO 13076:2019)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 13076:2019 sisaldab Euroopa standardi EN ISO 13076:2019 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 13076:2019 consists of the English text of the European standard EN ISO 13076:2019.		
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EUROPEAN STANDARD

EN ISO 13076

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Paints and varnishes - Lighting and procedure for visual assessments of coatings (ISO 13076:2019)

Peintures et vernis - Éclairage et mode opératoire pour évaluations visuelles des revêtements (ISO 13076:2019) Beschichtungsstoffe - Beleuchtung und Durchführung für visuelle Abmusterungen von Beschichtungen (ISO 13076:2019)

This European Standard was approved by CEN on 13 August 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN ISO 13076:2019) 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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.

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Endorsement notice

The text of ISO 13076:2019 has been approved by CEN as EN ISO 13076:2019 without any modification.

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Foreword

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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).

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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 13076:2012), which has been technically revised. The main changes compared to the previous edition are as follows:

- addition of <u>Clause 2</u> on normative references;
- addition of <u>Clause 3</u> on terms and definitions;
- addition of a new light source, LED;
- addition of examples on the applications of this document in Table A.1;
- complete editorial revision.

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.

Paints and varnishes — Lighting and procedure for visual assessments of coatings

1 Scope

This document specifies the lighting and the procedure for the visual assessment of degraded areas, spots or other defects on or in coatings.

This document is not applicable to the visual comparison of colour, which can be assessed using ISO 3668.

NOTE See Annex A for examples of the possible applications of this document.

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 4618, Paints and varnishes — Terms and definitions

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 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/

4 Principle

The panel is visually assessed under specified conditions of illumination for degraded areas, spots or other defects.

5 Apparatus

- **5.1 Fluorescent lamp or dull LED (light-emitting diode)**, comprising a wide-angle light source with an aluminium-coated reflector positioned to reflect the light downwards (see <u>Figure 1</u>), a colour temperature of 6 500 K and a degree of colour rendering index (CRI) of 9 (corresponding to colour rendering class 1A, i.e. a CRI, R_a , of 90 to 100). This colour temperature is realized in the CIE standard illuminant D65, as described in CIE 15:2004.
- NOTE 1 This colour temperature and colour rendering give the light colour 965.
- NOTE 2 Physical relationship of luminance and luminous flux: $1 \text{ lx} = 1 \text{ lm/m}^2$ and $1 \text{ lm} = 1 \text{ cd} \cdot \text{sr}$.