
**Paints and varnishes — Evaluation
of quantity and size of defects, and
of intensity of uniform changes in
appearance —**

**Part 5:
Assessment of degree of flaking**

*Peintures et vernis — Évaluation de la quantité et de la dimension des
défauts, et de l'intensité des changements uniformes d'aspect —*

Partie 5: Évaluation du degré d'écaillage



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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).

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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.

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 fourth edition cancels and replaces the third edition (ISO 4628-5:2016), which has been technically revised.

The main changes are as follows:

- the title has been shortened to three elements;
- amendments have been made to [Table 2](#) to clarify how the size of flaking is assessed;
- the text has been editorially revised.

A list of all parts in the ISO 4628 series can be found on the ISO website.

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 — Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance —

Part 5: Assessment of degree of flaking

1 Scope

This document specifies a method for assessing the degree of flaking of coatings by comparison with pictorial standards.

ISO 4628-1 specifies the system used for designating the quantity and size of defects and the intensity of changes in appearance of coatings. It also outlines the general principles of the system. This system is intended to be used, in particular, for defects caused by ageing and weathering, and for uniform changes such as colour changes, for example yellowing.

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 13076, *Paints and varnishes — Lighting and procedure for visual assessments of coatings*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1

degree of flaking

rating characterizing flaked areas in a coating in terms of quantity, size, and depth

4 Assessment

Assess the quantity of flaking by referring to [Table 1](#) and using [Figure 1](#) or [Figure 2](#) as examples, depending on the type of flaking.

[Figure 1](#) shows flaking without preferential direction and [Figure 2](#) shows flaking in a preferential direction due to anisotropy of the substrate.