
Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance —

Part 8:

Assessment of degree of delamination and corrosion around a scribe

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

Partie 8: Évaluation du degré de décollement et de corrosion autour d'une rayure



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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.

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 4628-8 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

ISO 4628 consists of the following parts, under the general title *Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance*:

- *Part 1: General introduction and designation system*
- *Part 2: Assessment of degree of blistering*
- *Part 3: Assessment of degree of rusting*
- *Part 4: Assessment of degree of cracking*
- *Part 5: Assessment of degree of flaking*
- *Part 6: Assessment of degree of chalking by tape method*
- *Part 7: Assessment of degree of chalking by velvet method*
- *Part 8: Assessment of degree of delamination and corrosion around a scribe*
- *Part 10: Assessment of degree of filiform corrosion*

ISO 4628-1 defines the system to be used for designating the quantity and size of defects and the intensity of changes in appearance of coatings and 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.

The other parts of ISO 4628 provide pictorial standards or other means for evaluating particular types of defect. As far as possible, already existing evaluation schemes have been used as the basis.

Introduction

After exposure of a coated and scribed test panel in a corrosive environment, the following phenomena can occur around the scribe:

- delamination;
- corrosion.

A combination of both phenomena can also occur.

It is recommended that delamination and corrosion around the scribe be evaluated separately to obtain more detailed information about the coating system.

In addition to the procedure described in this part of ISO 4628, assessments of delamination and corrosion around the scribe can be carried out using optical image processing.

Rating of other defects is described in other parts of ISO 4628.

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Paints and varnishes — Evaluation of degradation of coatings — Designation of quantity and size of defects, and of intensity of uniform changes in appearance —

Part 8: Assessment of degree of delamination and corrosion around a scribe

1 Scope

This part of ISO 4628 specifies a method for assessing delamination and corrosion, caused by a corrosive environment, around a scribe in a coating on a test panel or other test specimen.

NOTE An example of a corrosive environment is salt spray (fog) as used in the method of exposure described in ISO 7253 or ISO 9227 (see the Bibliography).

2 Normative references

The following referenced documents are indispensable for the application 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 3270, *Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing*

ISO 21227-1, *Paints and varnishes — Evaluation of defects on coated surfaces using optical imaging — Part 1: General guidance*

ISO 21227-3, *Paints and varnishes — Evaluation of defects on coated surfaces using optical imaging — Part 3: Assessment of delamination and corrosion around a scribe*

3 Terms and definitions

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

3.1

corrosion

area of visible corrosion products

3.2

delamination

loss of adhesion of a coating