

SLOVENSKI STANDARD

SIST EN ISO 4628-2:2004

01-januar-2004

Barve in laki – Ovrednotenje propadanja premazov – Ugotavljanje obsega in velikosti poškodb ter intenzitete enakomernih sprememb videza – 2. del: Ocenjevanje stopnje mehurjenja (ISO 4628-2:2003)

Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 2: Assessment of degree of blistering (ISO 4628-2:2003)

**iTeh STANDARD PREVIEW
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Beschichtungsstoffe - Beurteilung von Beschichtungsschäden - Beurteilung der Menge und der Größe von Schäden und der Intensität von gleichmäßigen Veränderungen im Aussehen - Teil 2: Bewertung des Blasengrades (ISO 4628-2:2003)

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Peintures et vernis - Evaluation 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 2: Evaluation du degré de cloquage (ISO 4628-2:2003)

Ta slovenski standard je istoveten z: EN ISO 4628-2:2003

ICS:

87.040

Barve in laki

Paints and varnishes

SIST EN ISO 4628-2:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4628-2

September 2003

ICS 87.040

English version

**Paints and varnishes - Evaluation of degradation of coatings -
Designation of quantity and size of defects, and of intensity of
uniform changes in appearance - Part 2: Assessment of degree
of blistering (ISO 4628-2:2003)**

Peintures et vernis - Evaluation 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 2: Evaluation du degré de cloquage (ISO
4628-2:2003)

Beschichtungsstoffe - Beurteilung von
Beschichtungsschäden - Beurteilung der Menge und der
Größe von Schäden und der Intensität von gleichmäßigen
Veränderungen im Aussehen - Teil 2: Bewertung des
Blasengrades (ISO 4628-2:2003)

This European Standard was approved by CEN on 1 August 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 4628-2:2003 (E)**Foreword**

This document (EN ISO 4628-2:2003) 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 2004, and conflicting national standards shall be withdrawn at the latest by March 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

NOTE FROM CMC The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

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Endorsement notice
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The text of ISO 4628-2:2003 has been approved by CEN as EN ISO 4628-2:2003 without any modifications.

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INTERNATIONAL
STANDARDISO
4628-2Second edition
2003-09-01

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

Part 2:

Assessment of degree of blistering
(standards.iteh.ai)*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 2: Évaluation du degré de cloquage*Reference number
ISO 4628-2:2003(E)

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Published in Switzerland

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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 4628-2 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 4628-2:1982), of which it constitutes a mainly editorial revision. The pictorial standards have been replaced by computer-generated pictures and binary images have been added for the calibration of optical imaging systems.

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*

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

Part 2: Assessment of degree of blistering

1 Scope

This part of ISO 4628 describes a method for assessing the degree of blistering of coatings by comparison with pictorial standards.

The pictorial standards provided in this part of ISO 4628 illustrate blisters in the sizes 2, 3, 4 and 5, and each size in the quantities (densities) 2, 3, 4 and 5.

ISO 4628-1 defines the system 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.

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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 4628-1, *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*

3 Terms and definitions

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

3.1

degree of blistering

rating characterizing blisters in a coating in terms of quantity (density) and size

4 Assessment

Assess the quantity and size of the blisters in a coating using the pictures given in Figures 1 to 4.

Where the area to be examined exhibits blisters of varying size, quote as the size rating that of the blisters which are typical of the test area.

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Carry out the assessment under good illumination.

If the assessment is to be done using an optical imaging system, calibrate the system using the images given in Annex A.

5 Expression of results

Express the ratings for the quantity (density) and size of the blisters as given in Figures 1 to 4, together with the approximate dimensions of the area concerned, or its proportion of the total area, expressed as a percentage.

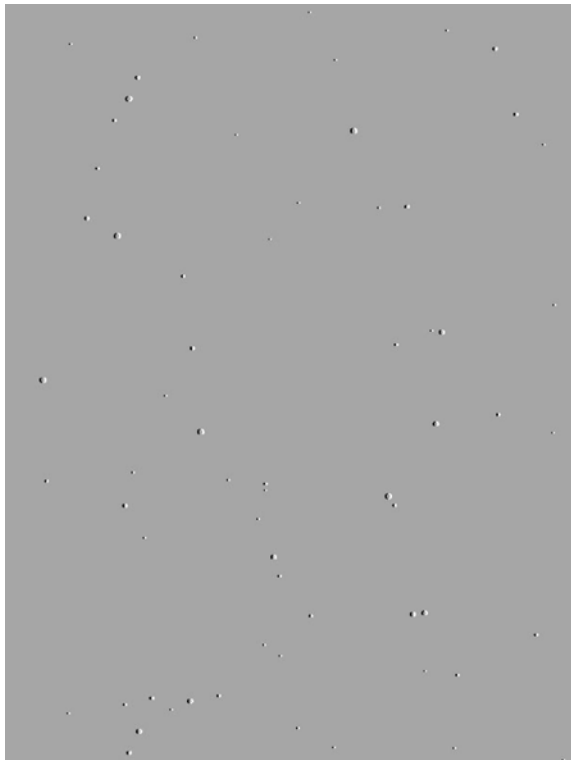
For example, if the coating is assessed as having blisters of quantity 2, size 2, i.e. matching Figure 2 a), it shall be reported as:

blistering; degree of blistering 2(S2).

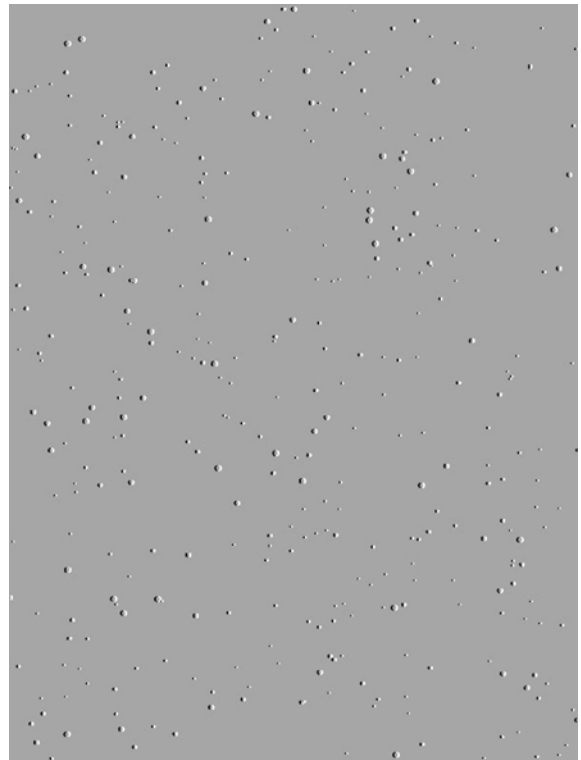
6 Test report

The test report shall contain at least the following information:

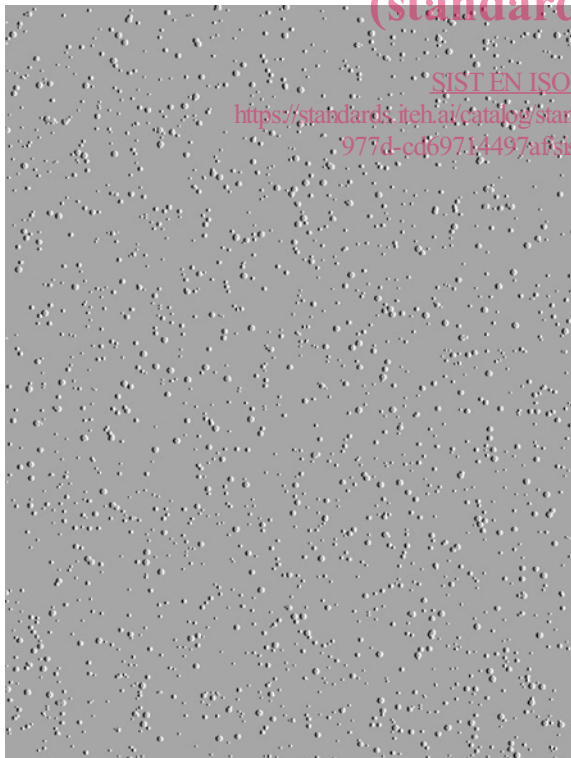
- a) all details necessary to identify the coating examined;
- b) a reference to this part of ISO 4628 (ISO 4628-2:2003);
- c) the type of surface examined, its size and, if appropriate, its location;
- d) the result of the assessment in accordance with Clause 5;
- e) an indication of the illumination under which the assessment was carried out;
- f) any unusual features (anomalies) noted during the assessment;
- g) the date of the examination.



a) Quantity (density) 2 — 2(S2)



b) Quantity (density) 3 — 3(S2)



c) Quantity (density) 4 — 4(S2)



d) Quantity (density) 5 — 5(S2)

Figure 1 — Blisters of size 2