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**Paints and varnishes — Evaluation of  
properties of coating systems related  
to the spray application process —**

**Part 1:  
Vocabulary and preparation of test  
panels**

*Peintures et vernis — Évaluation des propriétés des systèmes de  
revêtement liés au mode d'application par pulvérisation —*

*Partie 1: Vocabulaire et préparation des panneaux d'essai*

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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](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)).

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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](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 second edition cancels and replaces the first edition (ISO 28199-1:2009), which has been technically revised. It also incorporates the Technical Corrigendum ISO 28199-1:2009/Cor.1: 2009.

The main changes to the previous edition are as follows:

- the terms "minimum film-build", "locally related measurements" and "locally unrelated measurements" have been deleted;
- the terms "bubble formation limit" and "cratering" have been moved to ISO 28199-3;
- the terms "measurement pattern" and "dynamic spray pattern" have been added;
- the distinction between long-wavelength and short-wavelength ranges for the surface texture (3.13) has been deleted;
- the descriptions of the automatic painting machine (5.1) and the device for automatic positioning of measuring devices (5.2) have been revised;
- the description of the film thickness wedge (8.4) has been revised;
- the measurement pattern for colour measurement (9.4.3) has been adapted in line with the measurement pattern for texture measurement (9.4.4) for version A of the samples;
- the measurements of mottling (9.4.5) and gloss (9.4.6) have been added;
- examples of applications with high-speed rotation have been added as new Figure 2 and in Annex A;
- the normative references have been updated;

— the text has been editorially revised.

A list of all parts in the ISO 28199 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](http://www.iso.org/members.html).

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