

**SLOVENSKI STANDARD  
SIST EN ISO 28199-2:2021****01-september-2021****Nadomešča:****SIST EN ISO 28199-2:2010**

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**Barve in laki - Vrednotenje lastnosti premaznih sistemov pri nanašanju s prašenjem - 2. del: Barvna stabilnost, kritnost, ponovno raztapljanje, absorpcija pri prašenju, omočljivost, struktura površine in lisavost (ISO 28199-2:2021)**

Paints and varnishes - Evaluation of properties of coating systems related to the spray application process - Part 2: Colour stability, process hiding power, re-dissolving, overspray absorption, wetting, surface texture and mottling (ISO 28199-2:2021)

Beschichtungsstoffe - Beurteilung der durch Spritzapplikation bedingten Eigenschaften von Beschichtungssystemen - Teil 2: Farbstabilität, Prozessdeckvermögen, Anlösen, Spritznebelaufnahme, Benetzung, Oberflächenstruktur und Wolkigkeit (ISO 28199-2:2021)

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Peintures et vernis - Évaluation des propriétés des systèmes de revêtement liées au mode d'application par pulvérisation - Partie 2 : Stabilité des couleurs, pouvoir masquant du procédé, détrempe, absorption des pertes de peinture à la pulvérisation, mouillage, texture superficielle et marbrures (ISO 28199-2:2021)

**Ta slovenski standard je istoveten z: EN ISO 28199-2:2021**

**ICS:**

87.040

Barve in laki

Paints and varnishes

**SIST EN ISO 28199-2:2021****en,fr,de**

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**Paints and varnishes - Evaluation of properties of coating systems related to the spray application process - Part 2: Colour stability, process hiding power, re-dissolving, overspray absorption, wetting, surface texture and mottling (ISO 28199-2:2021)**

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN ISO 28199-2:2021) 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of an identical text or by endorsement, at the latest by December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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.

This document supersedes EN ISO 28199-2:2009.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

Part 2:

**Colour stability, process hiding power,  
re-dissolving, overspray absorption,  
wetting, surface texture and mottling**iTeh STANDARD PREVIEW  
(standards.iteh.ai)*Peintures et vernis — Évaluation des propriétés des systèmes de  
revêtement liés au mode d'application par pulvérisation —*<https://standards.iteh.ai/catalog/standards/sist/6c024b95-1fa8-4aa9-858e-836cb7bc680c/sist-en-iso-28199-2-2021>*Partie 2: Stabilité des couleurs, pouvoir masquant du procédé,  
détrempe, absorption des pertes de peinture à la pulvérisation,  
mouillage, texture superficielle et marbrures*Reference number  
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## ISO 28199-2:2021(E)

### 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 28199-2:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the assessment of mottling (see [10.2](#)) has been divided into measuring techniques and visual evaluation;
- limit values have been introduced for long-wavelength and short-wavelength surface textures (see [9.2.1](#));
- the normative references have been updated;
- the document 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).

## Introduction

In many areas (e.g. car manufacture, industrial coatings, coatings for plastics) the coating materials used are adapted to the specific application equipment and technologies of the particular user. A coating material is, therefore, to be understood as a semi-manufactured product that only receives its final form in combination with the specific application conditions. The adaptation to the application conditions is therefore decisive for the quality of the coated product.

The test methods specified in the ISO 28199 series are based on studies by a Working Group of the European Council for Automotive R&D (EUCAR).

They may be used for evaluation of coating materials in research, development and production with regard to their suitability and safety for industrial processes, and error analysis. The properties of coating materials and coatings to be evaluated depend on the film thickness, so a coating system of increasing thickness is applied to a test panel under defined conditions.

The following characteristics are measured (see ISO 28199-1):

- film thickness in accordance with ISO 2808;
- surface texture;
- colour in accordance with ISO 18314-1;
- mottling;
- gloss in accordance with ISO 2813.

In combination with visual assessment, the following properties are determined:

- colour stability, process hiding power, re-dissolving, overspray absorption, wetting, surface texture and mottling (this document);
- tendency to sagging, formation of bubbles, pinholing and hiding power (see ISO 28199-3).