



**SLOVENSKI STANDARD**  
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**Praškasti premazi - 8. del: Ocena stabilnosti termoreaktivnih praškov pri skladiščenju (ISO/DIS 8130-8:2020)**

Coating powders - Part 8: Assessment of the storage stability of thermosetting powders (ISO/DIS 8130-8:2020)

Pulverlacke - Teil 8: Beurteilung der Lagerbeständigkeit von wärmehärtenden Pulverlacken (ISO/DIS 8130-8:2020)

Poudres pour revêtement - Partie 8: Estimation de la stabilité au stockage des poudres thermodurcissables (ISO/DIS 8130-8:2020)

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**ICS:**

87.040

Barve in laki

Paints and varnishes

**oSIST prEN ISO 8130-8:2020**

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# DRAFT INTERNATIONAL STANDARD

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## Coating powders —

### Part 8: Assessment of the storage stability of thermosetting powders

*Poudres pour revêtement —**Partie 8: Estimation de la stabilité au stockage des poudres thermodurcissables*

ICS: 87.040

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## ISO/DIS 8130-8:2020(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)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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*.

This second edition cancels and replaces the first edition (ISO 8130-8:1994), which has been technically revised. The main changes compared to the previous edition are as follows:

- a) [Clause 3](#) on terms and definitions has been added;
- b) pretreated aluminium panels have been added in [Clause 6](#) as another option for test panels;
- c) Table 1 describing four different ratings for the extent of compaction of agglomeration of the coating powder has been deleted;
- d) the required supplementary information (former [Clause 4](#) and Annex A) has been incorporated in the test report;
- e) the text has been editorially revised and the normative references have been updated.

A list of all parts in the ISO 8130 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

Coating powders are subject to two distinct ageing mechanisms, one involving the physical state of the powder and the other its chemical reactivity. Changes in the coating powder may lead to deterioration in the physical and chemical properties of the final coating.

This document describes the procedures to be adopted in assessing the tendency of a thermosetting coating powder to maintain its physical and chemical integrity after being subjected to defined storage conditions.

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# Coating powders —

## Part 8:

# Assessment of the storage stability of thermosetting powders

## 1 Scope

This document establishes a method for the estimation of the storage stability of thermosetting coating powders. It provides the procedures for determining the changes both in the physical state of a thermosetting coating powder and in its chemical reactivity, together with its capacity to form a satisfactory final coating. A correlation between changes in different properties is not to be expected. Similarly, there may be no correlation between the results obtained under different storage conditions.

The results of the procedures in this document give an indication of the ability of the coating powder to withstand the effects of storage prior to application.

## 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 1514, *Paints and varnishes — Standard panels for testing*  
oSIST prEN ISO 8130-8:2020  
https://standards.iso.org/standards.html?iso=70636b5-8280-4d70-

ISO 2808, *Paints and varnishes — Determination of film thickness*  
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ISO 2813, *Paints and varnishes — Determination of gloss value at 20°, 60° and 85°*

ISO 6272-1, *Paints and varnishes — Rapid-deformation (impact resistance) tests — Part 1: Falling-weight test, large-area indenter*

ISO 8130-6, *Coating powders — Part 6: Determination of gel time of thermosetting coating powders at a given temperature*

ISO 8130-14:2004, *Coating powders — Part 14: Vocabulary*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8130-14 apply.

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

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

## 4 Principle

The thermosetting coating powder is subjected to artificial storage conditions for a specified period of time at a defined temperature. Subsequently, any change in the ability of the powder to flow freely

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and its tendency to agglomerate or to cake is noted. Any change in the ability of the powder to react chemically and to form a satisfactory final coating is then assessed.

Conditions at the bottom of the container may be simulated by placing a weight piece on the test portion to simulate compression.

## 5 Apparatus

Ordinary laboratory apparatus, together with the following:

**5.1 Air-circulating oven**, capable of being maintained at  $(30 \pm 0,5)$  °C or  $(40 \pm 0,5)$  °C.

A water bath may also be used, but the samples shall be carefully sealed to protect against the ingress of water.

**5.2 Test tubes**, of glass, nominally 200 mm long and 40 mm external diameter, or another suitable container, preferably made from glass.

**5.3 Test-tube stoppers.**

**5.4 Test-tube stand** that does not impede air (or water) circulation.

**5.5 Standard loads**, of mass  $(100 \pm 1)$  g.

NOTE A length of steel rod of diameter sufficient to fit closely within the test tubes (5.2) but without touching the sides is suitable.

**5.6 Aluminium-foil discs**, of diameter sufficient to fit closely within the test tubes (5.2) but without touching the sides.

**5.7 Balance**, capable of weighing 100 g to within 0,1 g.

## 6 Test panels

The test panels shall be agreed between the interested parties. In the absence of agreement, steel panels, solvent-degreased, as described in ISO 1514 or pretreated aluminium panels shall be used. Using the method specified by the manufacturer of the coating powder, apply the product under test or the product obtained in 8.3.2 to each test panel. The film thickness after stoving at the temperature and for the time specified shall be  $(50 \pm 10)$  µm, or as agreed by the interested parties, when determined by one of the methods specified in ISO 2808.

Condition the coated test panels out of direct sunlight at  $(23 \pm 2)$  °C and  $(50 \pm 5)$  % relative humidity for 24 h or as agreed between the interested parties. After conditioning, visually examine the test panels.

## 7 Sampling

Take a representative sample of the product to be tested as described in ISO 15528.