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**Coating powders —**  
**Part 14:**  
**Vocabulary**

*Poudres pour revêtement —*  
*Partie 14: Vocabulaire*



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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)).

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 8130-14:2004) which has been technically revised.

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

- the title of this document has been changed from "terminology" to "vocabulary";
- the following terms have been added: particle strength, sieve blinding, shelf life;
- the term, obscuration, has been moved to ISO 8130-13;
- the term "electrostatic spraying" has been changed to "electrostatic powder spraying" with the definition unchanged;
- the text has been editorially revised and the normative references have been updated.

A list of all the 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).

# Coating powders —

## Part 14: Vocabulary

### 1 Scope

This document defines special terms used in the field of coating powders.

Other terms and definitions related to paints and varnishes are given in ISO 4618.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions 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/>

#### 3.1

##### **agglomeration**

condition in which individual particles become joined together into larger assemblies

#### 3.2

##### **back ionization**

##### **electrostatic rejection**

##### **electrostatic repulsion**

dielectric breakdown in an electrostatically deposited powder caused by an excess accumulation of charge

Note 1 to entry: The phenomenon is associated with the disruption of the layer, leading to surface defects and to the eventual disintegration of the coating.

#### 3.3

##### **charge-to-mass ratio**

ratio of the electric charge on a powder sample to its mass

Note 1 to entry: A ratio of at least  $10^{-4}$  C·kg<sup>-1</sup> is normally required for acceptable coating performance.

#### 3.4

##### **classification**

division of a powder sample into two fractions, one above, the other below a predetermined particle size

#### 3.5

##### **coating powder**

finely divided particles of resin, either thermoplastic or thermosetting, generally incorporating pigments, fillers (extenders) and additives, and remaining finely divided during storage under suitable conditions, which, after fusion and possibly curing, give a continuous film