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Paints and varnishes — Electrodeposition coatings —

Part 14: **Deposition behaviour**

Peintures et vernis — Peintures d'électrodéposition — Partie 14: Comportement de précipitation





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Foreword

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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).

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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.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

A list of all parts in the ISO 22553 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.

Paints and varnishes — Electro-deposition coatings —

Part 14:

Deposition behaviour

1 Scope

This document specifies a method for determining the deposition behaviour of an electro-deposition coating (e-coat) on various substrates and with various pre-treatments.

It applies to electro-deposition coatings for automotive industries and other general industrial applications, e.g. chiller units, consumer products, radiators, aerospace, agriculture.

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

ISO 2808, Paints and varnishes — Determination of film thickness

ISO 4618, Paints and varnishes — Terms and definitions

ISO 22553-1, Paints and varnishes — Electro-deposition coatings — Part 1: Vocabulary

ISO 23321, Solvents for paints and varnishes — Demineralized water for industrial applications — Specification and test methods

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 and ISO 22553-1 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

Two test panels (the test panel and another panel as the counter electrode) are placed in the deposition system and coated at different voltages and bath temperatures. The film thickness is measured for each combination of voltage and bath temperature.

5 Apparatus and test equipment

Ordinary laboratory apparatus together with the following.