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BSI Standards Publication

Paints and varnishes — Paints and varnishes for interior walls and ceilings — Classification

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National foreword

This British Standard is the UK implementation of EN 13300:2022. It supersedes BS EN 13300:2001, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee STI/28, Paint systems for non-metallic substrates.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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EUROPEAN STANDARD **EN 13300**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2022

ICS 87.040

Supersedes EN 13300:2001

English Version

Paints and varnishes - Paints and varnishes for interior walls and ceilings - Classification

Peintures et vernis - Peintures et vernis pour murs et plafonds intérieurs - Classification

Beschichtungsstoffe - Wasserhaltige Beschichtungsstoffe und Beschichtungssysteme für Wände und Decken im Innenbereich - Einteilung

This European Standard was approved by CEN on 16 October 2022.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 13300:2022) has been prepared by 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of an identical text or by endorsement, at the latest by May 2022, and conflicting national standards shall be withdrawn at the latest by May 2022.

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 13300:2001.

In comparison with the previous edition, the following technical modifications have been made:

— Revision of normative references

— Revision of terms and definitions

— Changes in classification by specular gloss

— Changes in classification by granularity

— Introduction of uncertainty principle in wet scrub resistance classes

— Introduction of uncertainty principle in hiding power classes

— Introduction of cleanability

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Türkiye and the United Kingdom.

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This document identifies criteria that need to be considered when assessing the suitability of a coating material for a particular end use and provides a framework for communicating this information between manufacturer and user. This should assist in the removal of technical barriers to trade. It is in the responsibility of the manufacturer of a coating material to designate the appropriate categories for end use and appearance.

The coating materials are assessed independently of the substrate to which the material is intended to be applied. Properties such as adhesion and texture that are dependent on the substrate have, therefore, not been included. Nevertheless, it is essential that the coating system adheres properly to its appropriately prepared substrate. It needs to maintain adhesion under normal conditions during its specified lifetime.

Where applicable, the characteristics of the complete coating system, including combination of materials, sequence and thickness of layers, method(s) of application, colour and opacity, should preferably be agreed between supplier, specifier, applicator and customer. Requirements for substrate preparation should also be specified and observed.

Coating thickness and texture are subject to the manufacturer's recommendations and are affected by the method of application, the properties of the substrate and the formulation. These factors affect many important properties of the coating system such as soiling resistance and general appearance.

Care shall be taken to apply the coating materials under suitable temperature and humidity conditions and to observe recommended drying times and overcoating intervals.

The coating should be recoatable at least by the same coating material. Full information should be provided in supplier's data sheets.

The classes defined in this document are not intended to represent a quality scale but shall enable a qualified choice of the suitable coating material for an individual purpose.

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1 Scope

This document specifies a general system for the classification of paints and varnishes, for interior walls and ceilings, for the decoration of new and old, coated and uncoated surfaces.

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.

EN ISO 787-7, *General methods of test for pigments and extenders - Part 7: Determination of residue on sieve - Water method - Manual procedure (ISO 787-7)*

EN ISO 787-18, *General methods of test for pigments and extenders - Part 18: Determination of residue on sieve - Mechanical flushing procedure (ISO 787-18)*

EN ISO 1524, *Paints, varnishes and printing inks - Determination of fineness of grind (ISO 1524)*

EN ISO 2813, *Paints and varnishes - Determination of gloss value at 20°, 60° and 85° (ISO 2813)*

EN ISO 6504-3, *Paints and varnishes - Determination of hiding power - Part 3: Determination of hiding power of paints for masonry, concrete and interior use (ISO 6504-3)*

EN ISO 11998, *Paints and varnishes - Determination of wet-scrub resistance and cleanability of coatings (ISO 11998)*

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:

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

3.1
decoration
treatments with the primary objective to change or restore the appearance of the substrate

Note 1 to entry: Functions of these treatments are for example colour, gloss and texture etc.

3.2
paint
pigmented coating material which, when applied to a substrate, forms an opaque dried film having protective, decorative or specific technical properties

[SOURCE: EN ISO 4618:2014, definition 2.184]

3.3
varnish
transparent coating material

[SOURCE: EN ISO 4618:2014, definition 2.266 without Note 1 to entry]