Date: 2022-06-2309-27

ISO/FDIS 4618:2022(E)

ISO TC 35/WG 2

Paints and varnishes — Vocabulary

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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).

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).

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.www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, 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

This third edition cancels and replaces the second edition (ISO 4618:2014), which has been technically revised.

The main changes are as follows:

- the title has been changed from "Terms and definitions" to "Vocabulary";
- the following terms have been added: brush marks, catalyst, clouding, cold checking, conventional spraying, crater, creeping, dirt-resistant paint, distinctness of image, DOI, drawdown blade, dry spray, film applicator, flocculate, nanocomposite coating, nanoparticle, particle, pigment-binder ratio, primary particle, semi-volatile organic compound, semi-volatile organic compound content, SVOC, SVOC content, SVOCC;
- the following terms have been deleted: after tack, brush-drag, bubbling, cratering, cutting-in, dilatant flow behaviour, flash point, flocculation, flow properties, graining, marbling, pseudoplastic flow

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behaviour, rheopexy, rheopectic behaviour, rust back, shear-thickening flow behaviour, shear-thinning behaviour, sheen, tack-free, thixotropic behaviour, thixotropy, UV-curing, viscoelasticity, viscosity, yield point, yield stress, yield value;

- many definitions have been amended;
- the text has been editorially revised and the bibliography and scope have been updated.

In addition to terms in English and French (two of the three official ISO languages), this document gives the equivalent terms in German; these terms are published under the responsibility of the member body for Germany (DIN). However,) and is given for information only. Only the terms and definitions given in the official languages can be considered as ISO terms and definitions.

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.

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Paints and varnishes — Vocabulary

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1 Scope

This document defines terms used in the field of coating materials (paints, varnishes and raw materials for paints and varnishes).

Terms relating to specific applications and properties are dealt with in standards concerning those applications and properties, including corrosion protection (see the ISO 12944 series), coating powders (see ISO 8130–14), electro-deposition coatings (see ISO 22553–1) and rheology (see ISO 3219–1).

Terms on nanotechnologies are harmonized with ISO/FDIS 80004-1.

Terms on pigments and extenders are harmonized with ISO 18451-1.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

— ISO Online browsing platform: available at https://www.iso.org/obp

IEC Electropedia: available at https://www.electropedia.org/

3.1 abrasion

<testing of coatings> process of removing matter or deformation of a surface by friction as a result of rubbing

3.2

abrasion

<surface preparation> process of removing matter in the surface as a result of friction or impact

3.3

accelerator

additive (3.6) to increase the speed of chemical reactions

3.4

acid value

mass in milligrams of potassium hydroxide (KOH) required to neutralize 1 g of a sample under specified test conditions

3.5

acrylic resin

synthetic resin (3.249) resulting from the polymerization or copolymerization of acrylic and/or methacrylic monomers, frequently together with other monomers

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3.6	
additive	
substance, which, when added in small quantities to a <i>coating material</i> (3.48), improves or modifies one or more properties	Formatted: cite_sec
Note 1 to entry: A surfactant or surface-active agent is an additive (3.6) that has the fundamental property of	
reducing the interfacial tension between a solid and liquid or a liquid and air.	Formatted: Font: Not Italic
3.7	
adhesion	
phenomenon of attachment at the interface between a solid surface and another material caused by molecular forces	
Note 1 to entry: Adhesion should not be confused with <i>cohesion</i> (3.52).	F
	Formatted: cite_sec
3.8 adhesive strength	
force required to detach a coating (3.46) from a substrate (3.245) or another coating	Formatted: cite_sec
3.9	Formatted: cite_sec
aerosol	
solid or liquid particles in <i>dispersion</i> (3.83) in a gaseous medium	Formatted: cite_sec
3.10 IIEN STANDARD PREVI	
ageing	
change of one or more initial properties of a <i>coating</i> (3.46) during the passage of time	Formatted: cite_sec
3.11	
alkyd resin synthetic resin (3.249) resulting from the polycondensation of fatty acids (or oils) and carbonic acids with	Formatted: cite_sec
polyols https://standards.iteh.ai/catalog/standards/sist/9d88b3ba-f667-4d0a-b	59a-4a46fbfe3098/iso-
3.12 fdis-4618	
amino resin	
synthetic resin (3.249) resulting from the condensation of urea or melamine or derivatives such as benzo- guanamine with formaldehyde	Formatted: cite_sec
Note 1 to entry: These resins (3.211) are often etherified with alcohols.	Formatted: cite_sec
3.13	
anti-blocking agent additive (3.6) that usually rises to the surface during the drying (3.88) process and thus prevents blocking	Formatted: cite_sec
(3.27)	Formatted: cite_sec
3.14	Formatted: cite_sec
anti-foaming agent	Formatted: cite_sec
additive (3.6) that prevents foaming or reduces the foaming tendency of a coating material (3.48)	Formatted: cite_sec
Note 1 to entry: See also defoaming agent (3.74).	Formatted: Font: Not Italic
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2	
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ISO/FDIS 4618:2022(E) Formatted: Right 3.15 anti-fouling paint coating material (3.48) applied on a structure to prevent the accumulation of fouling or biological growth Formatted: cite_sec 3.16 anti-settling agent additive (3.6) that prevents or retards the settling (3.229) of pigments (3.193) and/or extenders (3.104 Formatted: cite sec during storage of a coating material (3.48) Formatted: cite_sec Formatted: cite sec 3.17 anti-skinning agent Formatted: cite_sec additive (3.6) that prevents or retards skinning (3.235236) caused by oxidation during storage Formatted: cite_sec 3.18 Formatted: cite_sec apparent density Formatted: cite_sec ratio between the mass and the volume of a non-tamped powder Note 1 to entry: See also bulk density (3.35) and tamped density (3.251). Formatted: cite_sec Formatted: cite sec 3.19 appearance visual characteristics of a surface Note 1 to entry: Appearance is not a single measure or a general property of a material. It is not characterized by a single parameter but a combination of colour (3.55), gloss (3.132), distinctness of image (DOI) (3.85), haze (3.136) Formatted: cite sec surface structure, texture (3.254), orange peel (3.178), etc. Formatted: cite_sec Note 2 to entry: The word appearance has no special paint related meaning but is included here for clarification Formatted: Font: Italic for non-English speakers. Formatted: cite_sec Formatted: cite_sec application rate standards Formatted: cite sec quantity of a coating material (3.48) that is required to produce, under defined working conditions, a dry Formatted: cite_sec film (3.111) or coat (3.45) of given thickness on unit area Formatted: cite_sec Formatted: cite_sec barrier coating material coating material (3.48) used to isolate a coating system (3.51) from the substrate (3.245) to which it is Formatted: cite sec applied, in order to prevent chemical or physical interaction Formatted: cite_sec Formatted: cite_sec Note 1 to entry: A barrier coating material e.g. prevents *bleeding (3.25) or migration from an underlying cod* (3.45) or substrate (3.245) Formatted: cite_sec Formatted: cite sec Note 2 to entry: The German term "Isoliermittel" which is still currently used should be avoided, in order to prevent Formatted: cite_sec confusion with heat- and sound-deadening materials as well as with electrical insulators. Formatted: Font: Not Italic 3.22 binder non-volatile part of a medium (3.153) Formatted: cite_sec

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Note 1 to entry: The main purpose of the binder is to build-up a network around the coating components.

3.23

biocide

additive (3.6) added to a coating material (3.48) to prevent organisms responsible for microbiological degradation from attacking a substrate (3.245), a coating material (3.48) or a film (3.111) thereof

3.24

blast-cleaning

impingement of a kinetic-energy stream of an abrasive on the surface to be prepared

3.25

bleeding, verb

migration of a coloured substance from a material into another material in contact with it, which can produce an undesirable staining or discoloration

Note 1 to entry: The substance couldcan be a constituent of the coating (3.46) or of the substrate (3.245) to which the coating (3.46) is applied.

3.26

blister

convex deformation in a coating, arising from local detachment of one or more of the constituent coats

3.27

blocking

unwanted *adhesion* (3.7) between two surfaces, at least one of which has been coated, when they are left in contact under load after a given *drying* (3.88) period

3.28

blooming, verb

migration of a substance to form a deposit on the coating (3.46) surface

Note 1 to entry: Blooming couldcan occur when the amount of condensate causes soluble compounds to migrate from the body of the coating (3.46) to the coating surface.

Note 2 to entry: The substance couldcan be a constituent of the coating or of the *substrate* (3.245) to which the coating is applied.

3.29

blushing, noun

optical property of a transparent or translucent *film* (3.111) that gives a milky *appearance* (3.19) or tint, with iridescent reflections reminiscent of opal

Note 1 to entry: Blushing can be caused by the deposition of moisture from the air and/or precipitation of one or more of the solid constituents of the lacquer.

3.30

brightness

combination of the lightness and colour (3.55) intensity of a material

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Note 1 to entry: Brightness is most commonly expressed numerically by the tristimulus value <i>Y</i> .	ļ	
3.31 brittleness		
condition whereby a film (3.111) or coat (3.45) has such poor flexibility (3.122) that it disintegrates easil	ı y	Formatted: cite_sec
into small fragments		Formatted: cite_sec
3.32		Formatted: cite_sec
bronzing intentional change in the <i>colour</i> (3.55) of the surface of an object by coating, giving the <i>appearance</i> (3.19)	əh	Formatted: cite_sec
of aged bronze		Formatted: cite_sec
Note 1 to entry: An unintentional colour (3.55) change is left out in the definition, as it is no longer applicable for	dr	Formatted: Font: Not Italic
actual pigments (3.193).		Formatted: rion: Not Hain:
3.33	Į.	
brush marks		
ridges remaining in a dry <i>coat</i> (3.45) after brush application		Formatted: cite_sec
3.34		
bubble closed or open spherical cavity in a coating, often caused by evaporating <i>solvents</i> (3.237)		Formatted: cite_sec
iTah STANDARD PREV	R	- Character and sec
3.35 bulk density		
ratio of mass to volume of a powder when poured gently under specified conditions		
(Statidat distriction)		
Note 1 to entry: The value of the bulk density depends to a large extent on the method of measurement used an the manner in which it is carried out.	ıd	
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Note 1 to entry: An example of checking is shown in Figure 1.





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<u>IS 4618</u> 9d88b3ba-f667-4d0a-b**59a-4a46fbfe3098/iso-**4618

$Figure \ 1 - Checking \\$

3.40 chemical pretreatment chemical process applied to a surface prior to the application of a coating material (3.48) Note 1 to entry: See phosphating (3.191). Formatted: cite_sec 3.41 chipping removal, in flakes, of a coating (3.46) or rust or mill scale (3.156) by use of hand or power tools Formatted: cite_sec Formatted: cite_sec Formatted: cite_sec

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<u>ISO/FDIS 4618:2022(E</u>)←	Formatted: Right
3.42 chlorinated rubber polymeric material resulting from the action of chlorine on natural and/or synthetic rubber	
3.43 cissing appearance (3.19) in a coating (3.46) of areas of non-uniform thickness which vary in extent and distribution	Formatted: cite_sec
3.44 coalescing agent	Formatted: cite_sec
additive (3.6) added to a coating material (3.48) based on a polymer dispersion (3.200) to facilitate film formation (3.112)	Formatted: cite_sec
	Formatted: cite_sec
3.45 coat	Formatted: cite_sec
continuous layer of a <i>coating material</i> (3-,48) resulting from a single application	Formatted: cite_sec
Note 1 to entry: In some industries the word "coat" is used interchangeably with "film". (3.111).	Formatted: cite_sec Formatted: cite_sec
	Formatted: Font: Italic
3.46 coating, noun	, on a name
layer formed from a single or multiple coats (3.45) of one specific coating material (3.48) to a substrate	Formatted: cite_sec
(3.245)	Formatted: cite_sec
3.47 coating, verb (standards.iteh.ai)	Formatted: cite_sec
G.	
process of applying a coat	
process of applying a coat 3.48 ISO/FDIS 4618	
process of applying a coat 3.48 coating material coating dards, itch ai/catalog/standards/sist/9d88b3ba-f667-4d0a_b5	Formatted: Font: Bold
process of applying a coat 3.48 coating material tandards itch ai/catalog/standards/sist/9488b3ba-f667-440a.b5	Formatted: Font: Bold Formatted: cite_sec
3.48 coating material DEPRECATED: coating product, in liquid, paste or powder form, that, when applied to a substrate (3.245), forms a layer possessing protective, decorative and/or other specific properties 3.49 coating powder	Formatted: cite_sec
3.48 coating material DEPRECATED: coating product, in liquid, paste or powder form, that, when applied to a <i>substrate</i> (3.245), forms a layer possessing protective, decorative and/or other specific properties 3.49 coating powder coating material (3.48) in powder form which, after fusing and possibly <i>curing</i> (3.71), gives a continuous	Formatted: cite_sec Formatted: cite_sec
3.48 coating material DEPRECATED: coating product, in liquid, paste or powder form, that, when applied to a <i>substrate</i> (3.245), forms a layer possessing protective, decorative and/or other specific properties 3.49 coating powder coating powder coating material (3.48) in powder form which, after fusing and possibly curing (3.71), gives a continuous coat (3.45)	Formatted: cite_sec Formatted: cite_sec Formatted: cite_sec
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