

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C09 DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

C09D COATING COMPOSITIONS, e.g. PAINTS, VARNISHES OR LACQUERS; FILLING PASTES; CHEMICAL PAINT OR INK REMOVERS; INKS; CORRECTING FLUIDS; WOODSTAINS; PASTES OR SOLIDS FOR COLOURING OR PRINTING; USE OF MATERIALS THEREFOR (cosmetics [A61K](#); processes for applying liquids or other fluent materials to surfaces, in general, [B05D](#); staining wood [B27K 5/02](#); glazes or vitreous enamels [C03C](#); natural resins, French polish, drying-oils, driers, turpentine, *per se*, [C09F](#); polishing compositions other than French polish, ski waxes [C09G](#); adhesives or use of materials as adhesives [C09J](#); materials for sealing or packing joints or covers [C09K 3/10](#); materials for stopping leaks [C09K 3/12](#); processes for the electrolytic or electrophoretic production of coatings [C25D](#))

NOTES

- In this subclass, the following terms or expressions are used with the meanings indicated:
 - "use of materials for coating compositions" means the use of known or new polymers or products;
 - "rubber" includes:
 - natural or conjugated diene rubbers;
 - rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for coating compositions based on such macromolecular compounds);
 - "based on" is defined by means of Note (3), below;
 - "filling pastes" means materials used to fill up the holes or cavities of a substrate in order to smooth its surface prior to coating.
- In this subclass, coating compositions, containing specific organic macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.
 Example: a coating composition containing polyethene and amino-propyltrimethoxysilane is classified in group [C09D 123/06](#).
 However, coating compositions containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups [C09D 159/00](#) - [C09D 187/00](#) are classified according to the unsaturated non-macromolecular component in group [C09D 4/00](#).
 Example: a coating composition containing polyethene and styrene monomer is classified in group [C09D 4/00](#).
 Aspects relating to the physical nature of the coating compositions or to the effects produced, as defined in group [C09D 5/00](#), if clearly and explicitly stated, are also classified in this subclass.
 Coating compositions characterised by other features, e.g. additives, are classified in group [C09D 7/00](#), unless the macromolecular constituent is specified.
- In this subclass, coating compositions comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the composition is based. If the composition is based on two or more constituents, present in equal proportions, the composition is classified according to each of these constituents.
 Example: a coating composition containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group [C09D 123/06](#). A coating composition containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups [C09D 123/06](#) and [C09D 127/06](#).
- In groups [C09D 101/00](#) - [C09D 201/00](#), any macromolecular constituent of a coating composition which is not identified by the classification according to Note (3) after the title of subclass [C09D](#), and the use of which is determined to be novel and non-obvious, must also be classified in a group chosen from groups [C09D 101/00](#) - [C09D 201/00](#).
 {This Note corresponds to IPC Note (1) relating to [C09D 101/00](#) - [C09D 201/00](#).}
- Any macromolecular constituent of a coating composition which is not identified by the classification according to Note (3) after the title of subclass [C09D](#) or Note (1) above, and which is considered to represent information of interest for search, may also be classified in a group chosen from groups [C09D 101/00](#) - [C09D 201/00](#). This can for example be the case when

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(continued)

it is considered of interest to enable searching of coating compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." {This Note corresponds to IPC Note (2) relating to [C09D 101/00](#) - [C09D 201/00](#).}

6. In groups [C09D 165/00](#) - [C09D 185/00](#), in the absence of an indication to the contrary, coating compositions based on macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified only according to the linkage present in excess.
{This Note corresponds to IPC Note (1) relating to [C09D 165/00](#) - [C09D 185/00](#).}
7. {In this subclass, combination sets [C-Sets] are used. Detailed information about the C-Sets construction and the associated syntax rules is found in the definitions for [C09D](#).}
8. {In addition to Note (4) above [C08L 2666/00](#) indexing codes were used for C-Sets classification of documents before April 2012. See C-Sets Search Rules in [C08L](#), in [C09D](#), or in [C09J](#) Definitions.}

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

C09D 4/02	covered by	C09D 4/00
C09D 4/04	covered by	C09D 4/00
C09D 5/25	covered by	H01B 3/30
C09D 5/33	covered by	C09D 5/004
C09D 5/46	covered by	C09D 5/03
C09D 161/08 , C09D 161/10	covered by	C09D 161/06
C09D 163/02	covered by	C09D 163/00
C09D 183/05	covered by	C09D 183/04
C09D 183/07	covered by	C09D 183/04 , C09D 183/06
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Coating compositions, e.g. paints, varnishes or lacquers, based on inorganic substances	5/008	. {Temporary coatings (C09D 5/20 takes precedence)}
1/02	. alkali metal silicates	5/02	. Emulsion paints {including aerosols}
1/04	. . with organic additives	5/021	. . {Aerosols (aerosol compositions C09K 3/30)}
1/06	. cement	5/022	. . {Emulsions, e.g. oil in water}
1/08	. . with organic additives	5/024	. . {characterised by the additives}
1/10	. lime	5/025	. . . {Preservatives, e.g. antimicrobial agents}
1/12	. . with organic additives	5/027	. . . {Dispersing agents (anti-settling agents C09D 7/45)}
4/00	Coating compositions, e.g. paints, varnishes or lacquers, based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond {; Coating compositions, based on monomers of macromolecular compounds of groups C09D 183/00 - C09D 183/16}	5/028	. . . {Pigments; Filters}
	NOTE	5/03	. Powdery paints
	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	5/031	. . {characterised by particle size or shape}
		5/032	. . {characterised by a special effect of the produced film, e.g. wrinkle, pearlescence, matt finish}
4/06	. {Organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond} in combination with a macromolecular compound other than an unsaturated polymer of groups C09D 159/00 - C09D 187/00	5/033	. . {characterised by the additives}
		5/034	. . . {Charge control agents (for toners G03G 9/097)}
		5/035	. . . {Coloring agents, e.g. pigments (C09D 5/032 takes precedence)}
		5/036	. . . {Stabilisers (organic stabilisers for paints C09D 7/48)}
		5/037	. . . {Rheology improving agents, e.g. flow control agents}
		5/038	. . . {Anticorrosion agents}
		5/04	. Thixotropic paints
		5/06	. Artists' paints
		5/08	. Anti-corrosive paints
		5/082	. . {characterised by the anti-corrosive pigment}
		5/084	. . . {Inorganic compounds}
		5/086	. . . {Organic or non-macromolecular compounds}
		5/088	. . {Autophoretic paints}
5/002	. {Priming paints (C09D 5/08 takes precedence)}	5/10	. . containing metal dust
5/004	. {Reflecting paints; Signal paints}	5/103	. . . {containing Al}
5/006	. {Anti-reflective coatings}	5/106	. . . {containing Zn}
		5/12	. . Wash primers

- 5/14 . . . Paints containing biocides, e.g. fungicides, insecticides or pesticides ([C09D 5/16](#) takes precedence)
- 5/16 . . . Antifouling paints; Underwater paints
- 5/1606 . . . {characterised by the anti-fouling agent}
- 5/1612 . . . {Non-macromolecular compounds}
- 5/1618 {inorganic}
- 5/1625 {organic}
- 5/1631 {Organotin compounds}
- 5/1637 {Macromolecular compounds}
- 5/1643 {containing tin}
- 5/165 {containing hydrolysable groups ([C09D 5/1643](#) takes precedence)}
- 5/1656 . . . {characterised by the film-forming substance ([C09D 5/1637](#) takes precedence)}
- 5/1662 {Synthetic film-forming substance}
- 5/1668 {Vinyl-type polymers}
- 5/1675 {Polyorganosiloxane-containing compositions}
- 5/1681 . . . {Antifouling coatings characterised by surface structure, e.g. for roughness effect giving superhydrophobic coatings or Lotus effect}
- 5/1687 . . . {Use of special additives}
- 5/1693 . . . {as part of a multilayer system}
- 5/18 . . . Fireproof paints {including high temperature resistant paints}
- 5/185 . . . {Intumescent paints}
- 5/20 . . . for coatings strippable as coherent films, e.g. temporary coatings strippable as coherent films
- 5/22 . . . Luminous paints {(luminescent compositions [C09K 11/00](#))}
- 5/23 . . . Magnetisable or magnetic paints or lacquers
- 5/24 . . . Electrically-conducting paints {(conductive materials [H01B 1/00](#))}
- 5/26 . . . Thermosensitive paints
- 5/28 . . . for wrinkle, crackle, orange-peel, or similar decorative effects
- 5/29 . . . for multicolour effects
- 5/30 . . . Camouflage paints
- 5/32 . . . Radiation-absorbing paints {(protection against X-, gamma- or corpuscular radiation [G21F](#))}
- 5/34 . . . Filling pastes (materials for sealing or packing joints or covers [C09K 3/10](#); materials for stopping leaks [C09K 3/12](#))
- 5/36 . . . Pearl essence, e.g. coatings containing platelet-like pigments for pearl lustre
- 5/38 . . . Paints containing free metal not provided for above in groups [C09D 5/00](#) - [C09D 5/36](#)
- 5/44 . . . for electrophoretic applications (processes for coating by electrophoresis [C25D 13/00](#))
- NOTE**
- The groups [C09D 5/4403](#) - [C09D 5/4476](#) relating to paints based on a specified film-forming polymer or mixture of polymers take precedence over the groups [C09D 5/448](#) - [C09D 5/4496](#) relating to paints characterised by other features
- 5/4403 . . . {with rubbers}
- 5/4407 . . . {with polymers obtained by polymerisation reactions involving only carbon-to-carbon unsaturated bonds}
- 5/4411 {Homopolymers or copolymers of acrylates or methacrylates}
- 5/4415 {Copolymers wherein one of the monomers is based on an epoxy resin}
- 5/4419 . . . {with polymers obtained otherwise than by polymerisation reactions only involving carbon-to-carbon unsaturated bonds}
- 5/4423 {Polyesters, esterified polyepoxides}
- 5/4426 {Esterified polyepoxides}
- 5/443 {Polyepoxides}
- 5/4434 {characterised by the nature of the epoxy binder}
- 5/4438 {Binder based on epoxy/amine adducts, i.e. reaction products of polyepoxides with compounds containing amino groups only}
- 5/4442 {Binder characterised by functional groups}
- 5/4446 {Aliphatic groups, e.g. ester}
- 5/4449 {Heterocyclic groups, e.g. oxazolidine}
- 5/4453 {characterised by the nature of the curing agent}
- 5/4457 {containing special additives, e.g. pigments, polymeric particles}
- 5/4461 {Polyamides; Polyimides}
- 5/4465 {Polyurethanes}
- 5/4469 {Phenoplasts; Aminoplasts}
- 5/4473 {Mixture of polymers}
- 5/4476 {comprising polymerisation *in situ*}
- 5/448 {characterised by the additives used ([C09D 5/4403](#) - [C09D 5/4476](#), [C09D 5/4492](#) take precedence)}
- 5/4484 {Anodic paints ([C09D 5/4403](#) - [C09D 5/4476](#) take precedence)}
- 5/4488 {Cathodic paints ([C09D 5/4403](#) - [C09D 5/4476](#) take precedence)}
- 5/4492 {containing special additives, e.g. grinding agents}
- 5/4496 {characterised by the nature of the curing agents}
- 7/00 Features of coating compositions, not provided for in group [C09D 5/00](#) (driers [C09F 9/00](#)); Processes for incorporating ingredients in coating compositions**
- 7/20 . . . Diluents or solvents
- 7/40 . . . Additives
- 7/41 Organic pigments; Organic dyes
- 7/42 Gloss-reducing agents
- 7/43 Thickening agents
- 7/44 Combinations of two or more thickening agents
- 7/45 Anti-settling agents
- 7/46 Anti-skinning agents
- 7/47 Levelling agents
- 7/48 Stabilisers against degradation by oxygen, light or heat
- 7/60 non-macromolecular ([C09D 7/41](#)-[C09D 7/48](#) take precedence)
- 7/61 inorganic
- 7/62 modified by treatment with other compounds
- 7/63 organic
- 7/65 macromolecular ([C09D 7/41](#)-[C09D 7/48](#) take precedence)
- 7/66 {characterised by particle size}
- 7/67 {Particle size smaller than 100 nm}
- 7/68 {Particle size between 100-1000 nm}

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103/00	Coating compositions based on starch, amylose or amylopectin or on their derivatives or degradation products	109/10	. Latex (C09D 109/04 , C09D 109/08 take precedence)
	NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	111/00	Coating compositions based on homopolymers or copolymers of chloroprene
103/02	. Starch; Degradation products thereof, e.g. dextrin		NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
103/04	. Starch derivatives	111/02	. Latex
103/06	. . Esters	113/00	Coating compositions based on rubbers containing carboxyl groups
103/08	. . Ethers		NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
103/10	. . Oxidised starch	113/02	. Latex
103/12	. Amylose; Amylopectin; Degradation products thereof	115/00	Coating compositions based on rubber derivatives (C09D 111/00 , C09D 113/00 take precedence)
103/14	. Amylose derivatives; Amylopectin derivatives		NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
103/16	. . Esters		
103/18	. . Ethers		
103/20	. . Oxidised amylose; Oxidised amylopectin		
105/00	Coating compositions based on polysaccharides or on their derivatives, not provided for in groups C09D 101/00 or C09D 103/00		
	NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }		
105/02	. Dextran; Derivatives thereof	115/005	. {Hydrogenated nitrile rubber}
105/04	. Alginic acid; Derivatives thereof	115/02	. Rubber derivatives containing halogen
105/06	. Pectin; Derivatives thereof	117/00	Coating compositions based on reclaimed rubber
105/08	. Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof		NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
105/10	. Heparin; Derivatives thereof		
105/12	. Agar-agar; Derivatives thereof		
105/14	. Hemicellulose; Derivatives thereof		
105/16	. Cyclodextrin; Derivatives thereof		
Coating compositions based on rubbers or on their derivatives		119/00	Coating compositions based on rubbers, not provided for in groups C09D 107/00 - C09D 117/00
107/00	Coating compositions based on natural rubber		NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
	NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	119/003	. {Precrosslinked rubber; Scrap rubber; Used vulcanised rubber}
107/02	. Latex	119/006	. {Rubber characterised by functional groups, e.g. telechelic diene polymers}
109/00	Coating compositions based on homopolymers or copolymers of conjugated diene hydrocarbons	119/02	. Latex
	NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	121/00	Coating compositions based on unspecified rubbers
109/02	. Copolymers with acrylonitrile		NOTE {In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
109/04	. . Latex		
109/06	. Copolymers with styrene		
109/08	. . Latex		

121/02 . Latex

Coating compositions based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds**123/00 Coating compositions based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Coating compositions based on derivatives of such polymers****NOTE**

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 123/02 . not modified by chemical after-treatment
- 123/025 . . {Copolymer of an unspecified olefine with a monomer other than an olefine}
- 123/04 . . Homopolymers or copolymers of ethene
- 123/06 . . . Polyethylene
- 123/08 . . . Copolymers of ethene ([C09D 123/16 takes precedence](#))
- 123/0807 {Copolymers of ethene with unsaturated hydrocarbons only containing more than three carbon atoms}
- 123/0815 {Copolymers of ethene with aliphatic 1-olefins}
- 123/0823 {Copolymers of ethene with aliphatic cyclic olefins}
- 123/083 {Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond}
- 123/0838 {Copolymers of ethene with aromatic monomers}
- 123/0846 {Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms}
- 123/0853 {Vinylacetate}
- 123/0861 {Saponified vinylacetate}
- 123/0869 {Acids or derivatives thereof}
- 123/0876 {Neutralised polymers, i.e. ionomers}
- 123/0884 {Epoxide containing esters}
- 123/0892 {containing monomers with other atoms than carbon, hydrogen or oxygen atoms}
- 123/10 . . Homopolymers or copolymers of propene
- 123/12 . . . Polypropene
- 123/14 . . . Copolymers of propene ([C09D 123/16 takes precedence](#))
- 123/142 {at least partially crystalline copolymers of propene with other olefins}
- 123/145 {Copolymers of propene with monomers having more than one C=C double bond}
- 123/147 {Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms}
- 123/16 . . {Elastomeric} ethene-propene or ethene-propene-diene copolymers, {e.g. EPR and EPDM rubbers}

NOTE

This group is used for polymers comprising both ethylene and propylene

- 123/18 . . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms
- 123/20 . . . having four to nine carbon atoms
- 123/22 Copolymers of isobutene; Butyl rubber {; Homo- or copolymers of other iso-olefines}
- 123/24 . . . having ten or more carbon atoms
- 123/26 . modified by chemical after-treatment
- 123/28 . . by reaction with halogens or compounds containing halogen ([C09D 123/32 takes precedence](#))
- 123/283 . . . {Halogenated homo- or copolymers of iso-olefines}
- 123/286 . . . {Chlorinated polyethylene}
- 123/30 . . by oxidation
- 123/32 . . by reaction with compounds containing phosphorus or sulfur
- 123/34 . . . by chlorosulfonation
- 123/36 . . by reaction with compounds containing nitrogen, e.g. by nitration

125/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 125/02 . Homopolymers or copolymers of hydrocarbons
- 125/04 . . Homopolymers or copolymers of styrene
- 125/06 . . . Polystyrene
- 125/08 . . . Copolymers of styrene ([C09D 129/08, C09D 135/06, C09D 155/02 take precedence](#))
- 125/10 with conjugated dienes
- 125/12 with unsaturated nitriles
- 125/14 with unsaturated esters
- 125/16 . . Homopolymers or copolymers of alkyl-substituted styrenes
- 125/18 . Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen

127/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 127/02 . not modified by chemical after-treatment
- 127/04 . . containing chlorine atoms
- 127/06 . . . Homopolymers or copolymers of vinyl chloride

- 127/08 . . . Homopolymers or copolymers of vinylidene chloride
- 127/10 . . containing bromine or iodine atoms
- 127/12 . . containing fluorine atoms
- 127/14 . . . Homopolymers or copolymers of vinyl fluoride
- 127/16 . . . Homopolymers or copolymers of vinylidene fluoride
- 127/18 . . . Homopolymers or copolymers of tetrafluoroethene
- 127/20 . . . Homopolymers or copolymers of hexafluoropropene
- 127/22 . modified by chemical after-treatment
- 127/24 . . halogenated

129/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Coating compositions based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 129/02 . Homopolymers or copolymers of unsaturated alcohols ([C09D 129/14 takes precedence](#))
- 129/04 . . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids
- 129/06 . . Copolymers of allyl alcohol
- 129/08 . . . with vinyl aromatic monomers
- 129/10 . Homopolymers or copolymers of unsaturated ethers ([C09D 135/08 takes precedence](#))
- 129/12 . Homopolymers or copolymers of unsaturated ketones
- 129/14 . Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols

131/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic acid (based on hydrolysed polymers [C09D 129/00](#)); Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 131/02 . Homopolymers or copolymers of esters of monocarboxylic acids
- 131/04 . . Homopolymers or copolymers of vinyl acetate

- 131/06 . Homopolymers or copolymers of esters of polycarboxylic acids
- 131/08 . . of phthalic acid

133/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides, or nitriles thereof; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 133/02 . Homopolymers or copolymers of acids; Metal or ammonium salts thereof
- 133/04 . Homopolymers or copolymers of esters ([C09D 143/04 takes precedence](#))
- 133/06 . . of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical
- 133/062 . . . {Copolymers with monomers not covered by [C09D 133/06](#)}
- 133/064 {containing anhydride, COOH or COOM groups, with M being metal or onium-cation}
- 133/066 {containing -OH groups}
- 133/068 {containing glycidyl groups}
- 133/08 . . Homopolymers or copolymers of acrylic acid esters
- 133/10 . . Homopolymers or copolymers of methacrylic acid esters
- 133/12 Homopolymers or copolymers of methyl methacrylate
- 133/14 . . of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen
- 133/16 . . Homopolymers or copolymers of esters containing halogen atoms
- 133/18 . Homopolymers or copolymers of nitriles
- 133/20 . . Homopolymers or copolymers of acrylonitrile ([C09D 155/02 takes precedence](#))
- 133/22 . . Homopolymers or copolymers of nitriles containing four or more carbon atoms
- 133/24 . Homopolymers or copolymers of amides or imides
- 133/26 . . Homopolymers or copolymers of acrylamide or methacrylamide

135/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 135/02 . Homopolymers or copolymers of esters
(C09D 135/06, C09D 135/08 take precedence)
- 135/04 . Homopolymers or copolymers of nitriles
(C09D 135/06, C09D 135/08 take precedence)
- 135/06 . Copolymers with vinyl aromatic monomers
- 135/08 . Copolymers with vinyl ethers

137/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (based on polymers of cyclic esters of polyfunctional acids C09D 131/00; based on polymers of cyclic anhydrides of unsaturated acids C09D 135/00); Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

139/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

- 139/02 . Homopolymers or copolymers of vinylamine
- 139/04 . Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member
- 139/06 . . Homopolymers or copolymers of N-vinyl-pyrrolidones
- 139/08 . . Homopolymers or copolymers of vinyl-pyridine

141/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

143/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

- 143/02 . Homopolymers or copolymers of monomers containing phosphorus

- 143/04 . Homopolymers or copolymers of monomers containing silicon

145/00 Coating compositions based on homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic system; Coating compositions based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional acids C09D 131/00; based on polymers of cyclic anhydrides or imides C09D 135/00)

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

- 145/02 . Coumarone-indene polymers

147/00 Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Coating compositions based on derivatives of such polymers (C09D 145/00 takes precedence; based on conjugated diene rubbers C09D 109/00 - C09D 121/00)

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

149/00 Coating compositions based on homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

151/00 Coating compositions based on graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (based on ABS polymers [C09D 155/02](#)); Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 151/003 . {grafted on to macromolecular compounds obtained by reactions only involving unsaturated carbon-to-carbon bonds ([C09D 151/04](#), [C09D 151/06](#) take precedence)}
- 151/006 . {grafted on to block copolymers containing at least one sequence of polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds}
- 151/02 . grafted on to polysaccharides
- 151/04 . grafted on to rubbers
- 151/06 . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond
- 151/08 . grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
- 151/085 . . {on to polysiloxanes}
- 151/10 . grafted on to inorganic materials

153/00 Coating compositions based on block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 153/005 . {Modified block copolymers}
- 153/02 . Vinyl aromatic monomers and conjugated dienes
- 153/025 . . {modified}

155/00 Coating compositions based on homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups [C09D 123/00](#) - [C09D 153/00](#)

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 155/005 . {Homopolymers or copolymers obtained by polymerisation of macromolecular compounds terminated by a carbon-to-carbon double bond}
- 155/02 . ABS [Acrylonitrile-Butadiene-Styrene] polymers
- 155/04 . Polyadducts obtained by the diene synthesis

157/00 Coating compositions based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 157/02 . Copolymers of mineral oil hydrocarbons
- 157/04 . Copolymers in which only the monomer in minority is defined
- 157/06 . Homopolymers or copolymers containing elements other than carbon and hydrogen
- 157/08 . . containing halogen atoms
- 157/10 . . containing oxygen atoms
- 157/12 . . containing nitrogen atoms

Coating compositions based on organic macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds

159/00 Coating compositions based on polyacetals; Coating compositions based on derivatives of polyacetals

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 159/02 . Polyacetals containing polyoxymethylene sequence only
- 159/04 . Copolyoxymethylenes

161/00 Coating compositions based on condensation polymers of aldehydes or ketones (with polyalcohols [C09D 159/00](#); with polynitriles [C09D 177/00](#)); Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 161/02 . Condensation polymers of aldehydes or ketones only
- 161/04 . Condensation polymers of aldehydes or ketones with phenols only
- 161/06 . . of aldehydes with phenols
- 161/12 . . . with polyhydric phenols
- 161/14 . . . Modified phenol-aldehyde condensates
- 161/16 . . of ketones with phenols
- 161/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only
- 161/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols [C09D 161/04](#))
- 161/22 . . of aldehydes with acyclic or carbocyclic compounds
- 161/24 . . . with urea or thiourea
- 161/26 . . of aldehydes with heterocyclic compounds

161/28	. . . with melamine	167/08	. Polyesters modified with higher fatty oils or their acids, or with natural resins or resin acids
161/30	. . of aldehydes with heterocyclic and acyclic or carbocyclic compounds	169/00	Coating compositions based on polycarbonates; Coating compositions based on derivatives of polycarbonates
161/32	. . Modified amine-aldehyde condensates	NOTE	
161/34	. Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C09D 161/04 , C09D 161/18 and C09D 161/20	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	
163/00	Coating compositions based on epoxy resins; Coating compositions based on derivatives of epoxy resins	169/005	. {Polyester-carbonates}
NOTE		171/00	Coating compositions based on polyethers obtained by reactions forming an ether link in the main chain (based on polyacetals C09D 159/00; based on epoxy resins C09D 163/00; based on polythioether-ethers C09D 181/02; based on polyethersulfones C09D 181/06); Coating compositions based on derivatives of such polymers
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }		NOTE	
163/04	. Epoxynovolacs	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	
163/06	. Triglycidylisocyanurates	171/02	. Polyalkylene oxides
163/08	. Epoxidised polymerised polyenes	171/03	. . Polyepihalohydrins
163/10	. Epoxy resins modified by unsaturated compounds	171/08	. Polyethers derived from hydroxy compounds or from their metallic derivatives (C09D 171/02 takes precedence)
165/00	Coating compositions based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C09D 107/00 - C09D 157/00, C09D 161/00 take precedence); Coating compositions based on derivatives of such polymers	171/10	. . from phenols
NOTE		171/12	. . . Polyphenylene oxides
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }		171/14	. . Furfuryl alcohol polymers
165/02	. Polyphenylenes	173/00	Coating compositions based on macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09D 159/00 - C09D 171/00; Coating compositions based on derivatives of such polymers
165/04	. Polyxylylenes	NOTE	
167/00	Coating compositions based on polyesters obtained by reactions forming a carboxylic ester link in the main chain (based on polyester-amides C09D 177/12; based on polyester-imides C09D 179/08); Coating compositions based on derivatives of such polymers	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	
NOTE		173/02	. Polyanhydrides
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }		175/00	Coating compositions based on polyureas or polyurethanes; Coating compositions based on derivatives of such polymers
167/02	. Polyesters derived from dicarboxylic acids and dihydroxy compounds (C09D 167/06 takes precedence)	NOTE	
167/025	. . {containing polyether sequences}	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	
167/03	. . the dicarboxylic acids and dihydroxy compounds having the carboxyl - and the hydroxy groups directly linked to aromatic rings	175/02	. Polyureas
167/04	. Polyesters derived from hydroxycarboxylic acids, e.g. lactones (C09D 167/06 takes precedence)	175/04	. Polyurethanes
167/06	. Unsaturated polyesters having carbon-to-carbon unsaturation	175/06	. . from polyesters
167/07	. . having terminal carbon-to-carbon unsaturated bonds	175/08	. . from polyethers
		175/10	. . from polyacetals

- 175/12 . . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
- 175/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds
- 175/16 . . . having terminal carbon-to-carbon unsaturated bonds

177/00 Coating compositions based on polyamides obtained by reactions forming a carboxylic amide link in the main chain (based on polyhydrazides C09D 179/06; based on polyamide-imides C09D 179/08); Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 177/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof ([C09D 177/10 takes precedence](#))
- 177/04 . Polyamides derived from alpha-amino carboxylic acids ([C09D 177/10 takes precedence](#))
- 177/06 . Polyamides derived from polyamines and polycarboxylic acids ([C09D 177/10 takes precedence](#))
- 177/08 . . from polyamines and polymerised unsaturated fatty acids
- 177/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids
- 177/12 . Polyester-amides

179/00 Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups [C09D 161/00](#) - [C09D 177/00](#)

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 179/02 . Polyamines
- 179/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
- 179/06 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
- 179/08 . . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
- 179/085 . . . {Unsaturated polyimide precursors}

181/00

Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur, with or without nitrogen, oxygen, or carbon only; Coating compositions based on polysulfones; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 181/02 . Polythioethers; Polythioether-ethers
- 181/04 . Polysulfides
- 181/06 . Polysulfones; Polyethersulfones
- 181/08 . Polysulfonates
- 181/10 . Polysulfonamides; Polysulfonimides

183/00

Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 183/02 . Polysilicates
- 183/04 . Polysiloxanes
- 183/06 . . containing silicon bound to oxygen-containing groups ([C09D 183/12 takes precedence](#))
- 183/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen
- 183/10 . Block or graft copolymers containing polysiloxane sequences ([obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane C09D 151/08, C09D 153/00](#))
- 183/12 . . containing polyether sequences
- 183/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms ([C09D 183/10 takes precedence](#))
- 183/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms

185/00

Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Coating compositions based on derivatives of such polymers

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of [C09D](#)}

- 185/02 . containing phosphorus
- 185/04 . containing boron

187/00	Coating compositions based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds	195/00	Coating compositions based on bituminous materials, e.g. asphalt, tar, pitch
	NOTE		NOTE
	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }		{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
187/005	. {Block or graft polymers not provided for in groups C09D 101/00 - C09D 185/04 }	195/005	. {Aqueous compositions, e.g. emulsions}
Coating compositions based on natural macromolecular compounds or on derivatives thereof (based on polysaccharides C09D 101/00 - C09D 105/00 ; based on natural rubber C09D 107/00)		197/00	Coating compositions based on lignin-containing materials (based on polysaccharides C09D 101/00 - C09D 105/00)
	NOTE		NOTE
189/00	Coating compositions based on proteins; Coating compositions based on derivatives thereof (foodstuff preparations A23J 3/00)		{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
	NOTE	197/002	. {Peat, lignite, coal (briquettes C10L 5/00 ; working-up peat; ceramic products based on carbon or carbides)}
	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	197/005	. {Lignin}
189/005	. {Casein}	197/007	. {Cork}
189/02	. Casein-aldehyde condensates	197/02	. Lignocellulosic material, e.g. wood, straw or bagasse
189/04	. Products derived from waste materials, e.g. horn, hoof or hair	199/00	Coating compositions based on natural macromolecular compounds or on derivatives thereof, not provided for in groups C09D 101/00 - C09D 107/00 or C09D 189/00 - C09D 197/00
189/06	. . derived from leather or skin		NOTE
191/00	Coating compositions based on oils, fats or waxes; Coating compositions based on derivatives thereof (polishing compositions, ski waxes C09G)		{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
	NOTE	201/00	Coating compositions based on unspecified macromolecular compounds
	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }		NOTE
191/005	. {Drying oils}		{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }
191/02	. Vulcanised oils, e.g. factice	201/005	. {Dendritic macromolecules}
191/04	. Linoxyn	201/02	. characterised by the presence of specified groups {, e.g. terminal or pendant functional groups}
191/06	. Waxes	201/025	. . {containing nitrogen atoms}
191/08	. . Mineral waxes	201/04	. . containing halogen atoms
193/00	Coating compositions based on natural resins; Coating compositions based on derivatives thereof (based on polysaccharides C09D 101/00 - C09D 105/00 ; based on natural rubber C09D 107/00 ; polishing compositions C09G)	201/06	. . containing oxygen atoms {(C09D 201/025 takes precedence)}
	NOTE	201/08	. . . Carboxyl groups
	{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D }	201/10	. . containing hydrolysable silane groups
193/02	. Shellac		
193/04	. Rosin		