

**CPC****COOPERATIVE PATENT CLASSIFICATION****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](#) ; organic macromolecular compounds [C08](#) ; organic dyes or closely-related compounds for producing dyes, mordants or lakes, per se , [C09B](#) ; treatment of inorganic materials other than fibrous fillers used as pigments or fillers [C09C](#) ; natural resins, French polish, drying-oils, driers, turpentine, per se , [C09F](#) ; polishing compositions other than French polish, ski waxes [C09G](#) ; preparation of glue or gelatine [C09H](#), { [C08H 1/06](#) } ; 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](#) ; textile-treating compositions [D06](#) ; paper-making [D21](#) ; conductors, insulators [H01B](#) )

**NOTE**

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:
  - a) natural or conjugated diene rubbers;
  - b) 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 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](#) to [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 4/06](#) .

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.

Examples:

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](#) .

Documents classified up until 04.2012: after the notation of group [C09D 4/06](#) , and separated therefrom by a + sign, notations concerning the macromolecular compound may be added. The notations are selected from the main groups [C08F 251/00](#) to [C08F 291/00](#) and from the subgroups of [C08F 290/00](#) to [C08F 290/048](#) and [C08F 290/08](#) to [C08F 290/128](#) .

Example: a paint based on a mixture of methylmethacrylate monomer and a polymer of vinylchloride is classified in [C09D 4/06](#) + [C08F 259/04](#) .

From April 2012 onwards, after the notation [C09D 4/00](#) , classification concerning the monomer may be added, in the form of C-sets. The notation is selected from [C08F 210/00](#) to [C08F 246/00](#) , [C08G 77/00](#) to [C08G 77/04](#) or [C08G 77/20](#) to [C08G 77/30](#) . Ex.: A paint based on a mixture of methylmethacrylate monomer and a polymer of vinylchloride is classified ( [C09D 4/06](#) , [C08F 259/04](#) ).

Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a [C09D 101/00](#) - [C09D 201/10](#) symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set. List of M08L codes: [C08L 23/00](#) , [C08L 23/26](#) , [C08L 25/00](#) , [C08L 27/00](#) , [C08L 27/04](#) , [C08L 27/12](#) , [C08L 29/00](#) , [C08L 31/00](#) , [C08L 33/00](#) , [C08L 35/00](#) , [C08L 37/00](#) , [C08L 51/00](#) , [C08L 53/00](#) , [C08L 55/02](#) , [C08L 61/04](#) , [C08L 61/20](#) , [C08L 63/00](#) , [C08L 67/00](#) , [C08L 67/02](#) , [C08L 67/02 B](#) , [C08L 67/03](#) , [C08L 67/04](#) , [C08L 67/06](#) , [C08L 67/07](#) , [C08L 69/00](#) , [C08L 69/00 B](#) , [C08L 71/00](#) , [C08L 75/04](#) , [C08L 77/00](#) , [C08L 77/08](#) , [C08L 77/12](#) , [C08L 79/08](#) , [C08L 79/08 B](#) , [C08L 81/00](#) , [C08L 83/00](#) , [C08L 85/00](#) , [C08L 91/06](#) , [C08L 95/00](#) or [C08L 2666/00](#) - [C08L 2666/86](#) . Documents from group [C09D 123/00](#) - [C09D 123/36](#) , [C09D 145/00](#) - [C09D 145/02](#) and [C09D 149/00](#) have all been reclassified following Note 3 below. An additive is classified in the last appropriate place in the list as selected for each [C09D](#) group.

Examples: a. A coating composition based on a polyamide and a graft polymer is classified in ( [C09D 177/00](#) , [C08L 2666/24](#) ). b. A coating composition based on polyvinylchloride and containing CaCO<sub>3</sub> is classified according to note 4 of [C08K](#) , i.e. in [C08K 3/26](#) and [C09D 127/06](#) . If this coating composition contains also a polyamide, then the classification will be ( [C09D 127/06](#) ,

[C08L 77/00](#) , [C08K 3/26](#) ). c. A coating composition based on a polysiloxane ( [C09D 183/04](#) ) and containing a second polysiloxane, a phenol and silica is classified in ( [C09D 183/04](#) , [C08L 83/04](#) , [C08L 2666/34](#) , [C08L 2666/54](#) ).

From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a [C09D](#) symbol, and the minor components are characterised by Indexing Codes taken from M08L or M08K and they are linked or unlinked. The polymer in majority is always first in the C-set. List of indexing codes in the C-Sets: [C08L 1/00](#) , [C08L 81/00](#) , [C08L 83/00](#) , [C08L 91/06](#) , [C08L 95/00](#) or [C08L 2666/02](#) - [C08L 2666/08](#) , [C08L 2666/14](#) - [C08L 2666/26](#) . Examples:

a. A coating of 60 parts polyvinylchloride ( [C09D 127/06](#) ) and 40 parts polyamide is classified in ( [C09D 127/06](#) , [C08L 2666/20](#) ), [C08L 77/00](#) . b. A coating of 50 parts polyvinylchloride ( [C09D 127/06](#) ) and 50 parts polyamide ( [C09D 177/00](#) ) is classified in ( [C09D 127/06](#) , [C08L 2666/20](#) ), and [C08L 77/00](#) , as well as ( [C09D 177/00](#) , [C08L 2666/04](#) ) and [C08L 27/06](#) . c. A coating composition based on polyvinylchloride and containing CaCO<sub>3</sub> is classified according to [N: Note 4 of [C08K](#), i.e. in [C08K 3/26](#) , [C09D 127/06](#) . If this composition contains also a polyamide, then the classification will be ( [C09D 127/06](#) , [C08L 2666/20](#) ) and [C08K 3/26](#) . d. A composition based on a first polysiloxane ( [C09D 183/04](#) ) and containing a second polysiloxane, a phenol and silica is classified in ( [C09D 183/04](#) , [C08L 83/00](#) , [C08K 5/13](#) , [C08K 3/36](#) ) and [C08L 2205/02](#) .

From April 2012 onwards, after the notation of groups [C09D 101/00](#) to [C09D 201/00](#) , notations concerning the other constituents of the coating composition may be added, in the form of C-Sets. The further constituent is added with an indexing code. The indexing codes are chosen from [C08L 1/00](#) -555/86 or M08K and they may be linked or unlinked: - [C08L 1/00](#) - [C08L 101/10](#) are linked. - [C08L 2201/00](#) - [C08L 2555/86](#) are unlinked. The polymer in majority is always first in the C-set. Examples:

a. A coating composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups [C09D 123/06](#) and [C08K 5/544](#) (unlinked). b. A coating composition containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in ( [C09D 123/06](#) , [C08L 27/06](#) ). c. A coating composition containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in ( [C09D 123/06](#) , [C08L 27/06](#) ) and ( [C09D 127/06](#) , [C08L 23/06](#) ). d. A coating composition containing 90% of polysiloxane ( [C09D 183/04](#) ) further containing 10% of polyester ( [C08L 67/00](#) ) and an alcohol is classified in ( [C09D 183/04](#) , [C08L 67/00](#) , [C08K 5/05](#) ).

## **WARNING**

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

[C09D 4/02](#) covered by [C09D 4/00](#) , [C08F 220/00](#)

[C09D 4/04](#) covered by [C09D 4/00](#) , [C08F 222/00](#)  
[C09D 5/23](#) covered by [H01F 41/16](#)  
[C09D 5/25](#) covered by [H01B 3/308](#)  
[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 171/08](#) covered by [C09D 171/02](#)  
[C09D 171/10](#) covered by [C09D 171/12](#)  
[C09D 183/05](#) covered by [C09D 183/04](#)  
[C09D 183/07](#) covered by [C09D 183/04](#) , [C09D 183/06](#)

**C09D 1/00**      **Coating compositions, e.g. paints, varnishes or lacquers, based on inorganic substances ( [C04B](#) takes precedence; glazes or vitreous enamels [C03C](#) )**

- C09D 1/02      .    alkali metal silicates
- C09D 1/04      . .    with organic additives
- C09D 1/06      .    cement
- C09D 1/08      . .    with organic additives
- C09D 1/10      .    lime
- C09D 1/12      . .    with organic additives

**C09D 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](#) to [C09D 183/16](#) }**

- C09D 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](#) to [C09D 187/00](#)

**C09D 5/00**      **Coating compositions, e.g. paints, varnishes or lacquers, characterised by their physical nature or the effects produced; Filling pastes { ( magnetisable or magnetic paints [H01F 1/00](#) ; electrically insulating paints [H01B 3/00](#) ; paints for electrophoretic applications [C25D 13/00](#) ) }**

- C09D 5/002      .    { Priming paints ( [C09D 5/08](#) takes precedence ) }
- C09D 5/004      .    { Reflecting paints; Signal paints }
- C09D 5/006      .    { Anti-reflective coatings }
- C09D 5/008      .    { Temporary coatings ( [C09D 5/20](#) takes precedence ) }
- C09D 5/02      .    Emulsion paints { including aerosols }

- C09D 5/021 .. { Aerosols ( aerosol compositions [C09K 3/30](#) )}
- C09D 5/022 .. { Emulsions, e.g. oil in water }
- C09D 5/024 .. { characterised by the additives }
- C09D 5/025 ... { Preservatives, e.g. antimicrobial agents }
- C09D 5/027 ... { Dispersing agents ( anti-settling agents [C09D 7/02](#) )}
- C09D 5/028 ... { Pigments; Filters }
  
- C09D 5/03 . Powdery paints
- C09D 5/031 .. { characterised by particle size or shape }
- C09D 5/032 .. { characterised by a special effect of the produced film, e.g. wrinkle, pearlescence, matt finish }
- C09D 5/033 .. { characterised by the additives }
- C09D 5/034 ... { Charge control agents ( for toners [G03G 9/097](#) )}
- C09D 5/035 ... { Coloring agents, e.g. pigments ( [C09D 5/032](#) takes precedence )}
- C09D 5/036 ... { Stabilisers ( organic stabilisers for paints [C09D 7/1241](#) )}
- C09D 5/037 ... { Rheology improving agents, e.g. flow control agents }
- C09D 5/038 ... { Anticorrosion agents }
  
- C09D 5/04 . Thixotropic paints
  
- C09D 5/06 . Artists` paints
  
- C09D 5/08 . Anti-corrosive paints
- C09D 5/082 .. { characterised by the anti-corrosive pigment }
- C09D 5/084 ... { Inorganic compounds }
- C09D 5/086 ... { Organic or non-macromolecular compounds }
- C09D 5/088 .. { Autophoretic paints }
- C09D 5/10 .. containing metal dust
- C09D 5/103 ... { containing Al }
- C09D 5/106 ... { containing Zn }
- C09D 5/12 .. Wash primers
  
- C09D 5/14 . Paints containing biocides, e.g. fungicides, insecticides or pesticides ( [C09D 5/16](#) takes precedence )
  
- C09D 5/16 . Antifouling paints; Under-water paints
- C09D 5/1606 .. { characterised by the anti-fouling agent }
- C09D 5/1612 ... { Non-macromolecular compounds }
- C09D 5/1618 .... { inorganic }
- C09D 5/1625 .... { organic }
- C09D 5/1631 ..... { Organotin compounds }
- C09D 5/1637 ... { Macromolecular compounds }
- C09D 5/1643 .... { containing tin }
- C09D 5/165 .... { containing hydrolysable groups ( [C09D 5/1643](#) takes precedence )}
- C09D 5/1656 .. { characterised by the film-forming substance ( [C09D 5/1637](#) takes precedence )}

- C09D 5/1662 . . . { Synthetic film-forming substance }
- C09D 5/1668 . . . . { Vinyl-type polymers }
- C09D 5/1675 . . . . { Polyorganosiloxane-containing compositions }
- C09D 5/1681 . . { Antifouling coatings characterised by surface structure, e.g. for roughness effect giving superhydrophobic coatings or Lotus effect }
- C09D 5/1687 . . { Use of special additives }
- C09D 5/1693 . . { as part of a multilayer system }
  
- C09D 5/18 . Fireproof paints { including high temperature resistant paints }
- C09D 5/185 . . { Intumescent paints }
  
- C09D 5/20 . for coatings strippable as coherent films, e.g. temporary coatings strippable as coherent films
  
- C09D 5/22 . Luminous paints { luminescent compositions [C09K 11/00](#) }
  
- C09D 5/23 . Magnetisable or magnetic paints or lacquers
  
- C09D 5/24 . Electrically-conducting paints { conductive materials [H01B 1/00](#) }
  
- C09D 5/26 . Thermosensitive paints
  
- C09D 5/28 . for wrinkle, crackle, orange-peel, or similar decorative effects
  
- C09D 5/29 . for multicolour effects
  
- C09D 5/30 . Camouflage paints
  
- C09D 5/32 . Radiation-absorbing paints {( protection against X-, gamma- or corpuscular radiation [G21F](#) )}
  
- C09D 5/34 . Filling pastes ( materials for sealing or packing joints or covers [C09K 3/10](#) ; materials for stopping leaks [C09K 3/12](#) )
  
- C09D 5/36 . Pearl essence, e.g. coatings containing platelet-like pigments for pearl lustre
  
- C09D 5/38 . Paints containing free metal not provided for above in groups [C09D 5/00](#) - [C09D 5/36](#)
  
- C09D 5/44 . for electrophoretic applications ( processes for coating by electrophoresis [C25D 13/00](#) )

**NOTE**

The groups [C09D 5/4403](#) to [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](#) to [C09D 5/4496](#) relating to paints characterised by other features

- C09D 5/4403 . . { with rubbers }
- C09D 5/4407 . . { with polymers obtained by polymerisation reactions involving only carbon-to-carbon unsaturated bonds }
- C09D 5/4411 . . . { Homopolymers or copolymers of acrylates or methacrylates }

C09D 5/4415	...	{ Copolymers wherein one of the monomers is based on an epoxy resin }
C09D 5/4419	..	{ with polymers obtained otherwise than by polymerisation reactions only involving carbon-to-carbon unsaturated bonds }
C09D 5/4423	...	{ Polyesters, esterified polyepoxides }
C09D 5/4426	....	{ Esterified polyepoxides }
C09D 5/443	...	{ Polyepoxides }
C09D 5/4434	....	{ characterised by the nature of the epoxy binder }
C09D 5/4438	.....	{ Binder based on epoxy/amine adducts, i.e. reaction products of polyepoxides with compounds containing amino groups only }
C09D 5/4442	.....	{ Binder characterised by functional groups }
C09D 5/4446	.....	{ Aliphatic groups, e.g. ester }
C09D 5/4449	.....	{ Heterocyclic groups, e.g. oxazolidine }
C09D 5/4453	....	{ characterised by the nature of the curing agent }
C09D 5/4457	....	{ containing special additives, e.g. pigments, polymeric particles }
C09D 5/4461	...	{ Polyamides; Polyimides }
C09D 5/4465	...	{ Polyurethanes }
C09D 5/4469	...	{ Phenoplasts; Aminoplasts }
C09D 5/4473	..	{ Mixture of polymers }
C09D 5/4476	..	{ comprising polymerisation in situ }
C09D 5/448	..	{ characterised by the additives used ( <a href="#">C09D 5/4403</a> to <a href="#">C09D 5/4476</a> , <a href="#">C09D 5/4492</a> take precedence ) }
C09D 5/4484	..	{ Anodic paints ( <a href="#">C09D 5/4403</a> to <a href="#">C09D 5/4476</a> take precedence ) }
C09D 5/4488	..	{ Cathodic paints ( <a href="#">C09D 5/4403</a> to <a href="#">C09D 5/4476</a> take precedence ) }
C09D 5/4492	...	{ containing special additives, e.g. grinding agents }
C09D 5/4496	...	{ characterised by the nature of the curing agents }

**C09D 7/00**      **Features of coating compositions, not provided for in group [C09D 5/00](#) ( driers [C09F 9/00](#) )**

C09D 7/001	.	{ Diluents or solvents for paints }
C09D 7/002	.	{ Use of compounds as thickening agents }
C09D 7/004	..	{ Two or more thickening agents }
C09D 7/005	.	{ Use of compounds as gloss-reducing agents }
C09D 7/007	.	{ Use of organic pigments or dyes ( inorganic pigments <a href="#">C09D 7/1216</a> ) }
C09D 7/008	.	{ Paint detackifiers or coagulants, e.g. for the treatment of oversprays in paint spraying installations ( chemical paint removers <a href="#">C09D 9/00</a> ) }
C09D 7/02	.	Use of compounds as anti-settling agents
C09D 7/04	.	Use of compounds as anti-skinning agents
C09D 7/06	.	Use of compounds as levelling agents



- C09D 7/12 . Other additives
- C09D 7/1208 .. { non-macromolecular }
- C09D 7/1216 ... { inorganic ( [C09D 7/1291](#) takes precedence ) }
- C09D 7/1225 .... { modified by treatment with other compounds }
- C09D 7/1233 ... { organic }
- C09D 7/1241 .... { Stabilisers against degradation by oxygen, light or heat }
- C09D 7/125 .. { macromolecular ( [C09D 7/1291](#) takes precedence ) }
- C09D 7/1258 .. { characterised by particle size ( not used ) }
- C09D 7/1266 ... { characterised by a particle size lower than 100 nm }
- C09D 7/1275 ... { characterised by a particle size of 100-1000 nm }
- C09D 7/1283 ... { characterised by a particle size higher than 1000 nm }
- C09D 7/1291 .. { characterised by shape, e.g. fibres, flakes, microspheres }
  
- C09D 7/14 . Special processes for incorporating ingredients
  
- C09D 9/00** **Chemical paint or ink removers** ( fluid media for correction of typographical errors by coating [C09D 10/00](#) )
  
- C09D 9/005 . { containing organic solvents }
- C09D 9/02 . with abrasives
- C09D 9/04 . with surface-active agents
  
- C09D 10/00** **Correcting fluids, e.g. fluid media for correction of typographical errors by coating** {( [correcting errors by overprinting B41J 29/36](#) ) }
  
- C09D 11/00** **Inks**
- NOTE**
- Groups [C09D 11/02](#) to [C09D 11/54](#) do not correspond to former IPC. Concordance CPC : IPC for these groups is as follows: - [C09D 11/023](#) - **[C09D 11/49](#)** : [C09D 11/02](#) - [C09D 11/50](#) - [C09D 11/54](#) : [C09D 11/00](#)
  
- C09D 11/005 . { Inks based on two liquids, one liquid being the ink, the other liquid being a reaction solution, a fixer or a treatment solution for the ink }
  
- C09D 11/02 . Printing inks ( [C09D 11/30](#) , [C09D 11/52](#) take precedence )
- C09D 11/023 .. Emulsion inks
- C09D 11/0235 ... Duplicating inks, e.g. for stencil printing ( [stencil printing per se B41M 1/12](#) )
- C09D 11/03 .. characterised by features other than the chemical nature of the binder
- C09D 11/033 ... characterised by the solvent
- C09D 11/037 ... characterised by the pigment
- C09D 11/04 .. based on proteins



- C09D 11/06 . . based on fatty oils
- C09D 11/08 . . based on natural resins
- C09D 11/10 . . based on artificial resins
- C09D 11/101 . . . Inks specially adapted for printing processes involving curing by wave energy or particle radiation, e.g. with UV-curing following the printing
- C09D 11/102 . . . containing macromolecular compounds obtained by reactions other than those only involving unsaturated carbon-to-carbon bonds ( [C09D 11/101 takes precedence](#) )
- C09D 11/103 . . . . of aldehydes, e.g. phenol-formaldehyde resins
- C09D 11/104 . . . . Polyesters
- C09D 11/105 . . . . . Alkyd resins
- C09D 11/106 . . . containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds ( [C09D 11/101 takes precedence](#) )
- C09D 11/107 . . . . from unsaturated acids or derivatives thereof
- C09D 11/108 . . . . Hydrocarbon resins
- C09D 11/12 . . based on waxes or bitumen
- C09D 11/14 . . based on carbohydrates
  
- C09D 11/16 . Writing inks
- C09D 11/17 . . containing specific colouring agents
- C09D 11/18 . . specially adapted for ball-point writing instruments
- C09D 11/20 . . Indelible
  
- C09D 11/30 . Jet-printing inks
- C09D 11/32 . . characterised by colouring agents
- C09D 11/322 . . . Pigment inks
- C09D 11/324 . . . containing carbon black
- C09D 11/326 . . . characterised by the pigment dispersant ( [C09D 11/324 takes precedence](#) )
- C09D 11/328 . . . characterised by dyes
- C09D 11/34 . . Hot-melt inks
- C09D 11/36 . . based on non-aqueous solvents
- C09D 11/38 . . characterised by non-macromolecular additives other than solvents, pigments or dyes ( [C09D 11/36 takes precedence](#) )
- C09D 11/40 . . Ink-sets specially adapted for multi-colour ink-jet printing ( [devices for multi-colour ink-jet printing B41J 2/21](#) )
  
- C09D 11/50 . Sympathetic, colour changing or similar inks
  
- C09D 11/52 . Electrically conductive inks ( [C09D 11/30 takes precedence](#) )
  
- C09D 11/54 . Inks based on two liquids, one liquid being the ink, the other liquid being a reaction solution, a fixer or a treatment solution for the ink
  
- C09D 13/00 Pencil-leads; Crayon compositions; Chalk compositions**
  
- C09D 15/00 Woodstains**

**C09D 17/00**      **Pigment pastes, e.g. for mixing in paints ( artists` paints [C09D 5/06](#) )**

- C09D 17/001      . { in aqueous medium ( [C09D 17/00](#) H, [C09D 17/004](#) take precedence ) }
- C09D 17/002      . { in organic medium ( [C09D 17/00](#) H, [C09D 17/004](#) take precedence ) }
- C09D 17/003      . { containing an organic pigment ( process features in the making of dye stuff preparations [C09B 67/00](#) ) }
- C09D 17/004      . { containing an inorganic pigment }
- C09D 17/005      .. { Carbon black }
- C09D 17/006      .. { Metal }
- C09D 17/007      .. { Metal oxide }
- C09D 17/008      ... { Titanium dioxide }

**Guidance heading:**      **Coating compositions based on polysaccharides or on their derivatives****C09D 101/00**      **Coating compositions based on cellulose, modified cellulose, or cellulose derivatives**

- C09D 101/02      . Cellulose; Modified cellulose
- C09D 101/04      .. Oxycellulose; Hydrocellulose
- C09D 101/06      .. Cellulose hydrate
- C09D 101/08      . Cellulose derivatives
- C09D 101/10      .. Esters of organic acids ( of both organic acids and inorganic acids [C09D 101/20](#) )
- C09D 101/12      ... Cellulose acetate
- C09D 101/14      ... Mixed esters, e.g. cellulose acetate-butyrate
- C09D 101/16      .. Esters of inorganic acids ( of both organic acids and inorganic acids [C09D 101/20](#) )
- C09D 101/18      ... Cellulose nitrate
- C09D 101/20      .. Esters of both organic acids and inorganic acids
- C09D 101/22      .. Cellulose xanthate
- C09D 101/24      ... Viscose
- C09D 101/26      .. Cellulose ethers
- C09D 101/28      ... Alkyl ethers
- C09D 101/282      .... { with halogen-substituted hydrocarbon radicals }
- C09D 101/284      .... { with hydroxylated hydrocarbon radicals }
- C09D 101/286      .... { substituted with acid radicals ( [C09D 101/282](#) takes precedence ) }
- C09D 101/288      .... { substituted with nitrogen containing radicals }
- C09D 101/30      ... Aryl ethers; Aralkyl ethers
- C09D 101/32      .. Cellulose ether-esters

**C09D 103/00**      **Coating compositions based on starch, amylose or amylopectin or on their derivatives or degradation products**

- C09D 103/02 . Starch; Degradation products thereof, e.g. dextrin
- C09D 103/04 . Starch derivatives
- C09D 103/06 . . Esters
- C09D 103/08 . . Ethers
- C09D 103/10 . . Oxidised starch
- C09D 103/12 . Amylose; Amylopectin; Degradation products thereof
- C09D 103/14 . Amylose derivatives; Amylopectin derivatives
- C09D 103/16 . . Esters
- C09D 103/18 . . Ethers
- C09D 103/20 . . Oxidised amylose; Oxidised amylopectin

**C09D 105/00** **Coating compositions based on polysaccharides or on their derivatives, not provided for in groups [C09D 101/00](#) or [C09D 103/00](#)**

- C09D 105/02 . Dextran; Derivatives thereof
- C09D 105/04 . Alginic acid; Derivatives thereof
- C09D 105/06 . Pectin; Derivatives thereof
- C09D 105/08 . Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof
- C09D 105/10 . Heparin; Derivatives thereof
- C09D 105/12 . Agar-agar; Derivatives thereof
- C09D 105/14 . Hemicellulose; Derivatives thereof
- C09D 105/16 . Cyclodextrin; Derivatives thereof

**Guidance heading:** **Coating compositions based on rubbers or on their derivatives**

**C09D 107/00** **Coating compositions based on natural rubber**

- C09D 107/02 . Latex

**C09D 109/00** **Coating compositions based on homopolymers or copolymers of conjugated diene hydrocarbons**

- C09D 109/02 . Copolymers with acrylonitrile
- C09D 109/04 . . Latex
- C09D 109/06 . Copolymers with styrene

C09D 109/08	. . Latex
C09D 109/10	. Latex ( <a href="#">C09D 109/04</a> , <a href="#">C09D 109/08</a> take precedence )
<b>C09D 111/00</b>	<b>Coating compositions based on homopolymers or copolymers of chloroprene</b>
C09D 111/02	. Latex
<b>C09D 113/00</b>	<b>Coating compositions based on rubbers containing carboxyl groups</b>
C09D 113/02	. Latex
<b>C09D 115/00</b>	<b>Coating compositions based on rubber derivatives ( <a href="#">C09D 111/00</a> , <a href="#">C09D 113/00</a> take precedence )</b>
C09D 115/005	. { Hydrogenated nitrile rubber }
C09D 115/02	. Rubber derivatives containing halogen
<b>C09D 117/00</b>	<b>Coating compositions based on reclaimed rubber</b>
<b>C09D 119/00</b>	<b>Coating compositions based on rubbers, not provided for in groups <a href="#">C09D 107/00</a> to <a href="#">C09D 117/00</a></b>
C09D 119/003	. { Precrosslinked rubber; Scrap rubber; Used vulcanised rubber }
C09D 119/006	. { Rubber characterised by functional groups, e.g. telechelic diene polymers }
C09D 119/02	. Latex
<b>C09D 121/00</b>	<b>Coating compositions based on unspecified rubbers</b>
C09D 121/02	. Latex
<b>Guidance heading:</b>	<b>Coating compositions based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds</b>
<b>C09D 123/00</b>	<b>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</b>
C09D 123/02	. not modified by chemical after-treatment
C09D 123/025	. . { Copolymer of an unspecified olefine with a monomer other than an olefine }
C09D 123/04	. . Homopolymers or copolymers of ethene
C09D 123/06	. . . Polyethene
C09D 123/08	. . . Copolymers of ethene ( <a href="#">C09D 123/16</a> takes precedence )

C09D 123/0807	....	{ Copolymers of ethene with unsaturated hydrocarbons only containing more than three carbon atoms }
C09D 123/0815	.....	{ Copolymers of ethene with aliphatic 1-olefins }
C09D 123/0823	.....	{ Copolymers of ethene with aliphatic cyclic olefins }
C09D 123/083	.....	{ Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond }
C09D 123/0838	.....	{ Copolymers of ethene with aromatic monomers }
C09D 123/0846	....	{ Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms }
C09D 123/0853	.....	{ Vinylacetate }
C09D 123/0861	.....	{ Saponified vinylacetate }
C09D 123/0869	.....	{ Acids or derivatives thereof }
C09D 123/0876	.....	{ Neutralised polymers, i.e. ionomers }
C09D 123/0884	.....	{ Epoxide containing esters }
C09D 123/0892	.....	{ containing monomers with other atoms than carbon, hydrogen or oxygen atoms }
C09D 123/10	..	Homopolymers or copolymers of propene
C09D 123/12	...	Polypropene
C09D 123/14	...	Copolymers of propene ( <a href="#">C09D 123/16</a> takes precedence )
C09D 123/142	....	{ at least partially crystalline copolymers of propene with other olefins }
C09D 123/145	....	{ Copolymers of propene with monomers having more than one C=C double bond }
C09D 123/147	....	{ Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms }
C09D 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

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

**C09D 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**

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

**C09D 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**

- C09D 127/02 . not modified by chemical after-treatment
- C09D 127/04 . . containing chlorine atoms
- C09D 127/06 . . . Homopolymers or copolymers of vinyl chloride
- C09D 127/08 . . . Homopolymers or copolymers of vinylidene chloride
- C09D 127/10 . . containing bromine or iodine atoms
- C09D 127/12 . . containing fluorine atoms
- C09D 127/14 . . . Homopolymers or copolymers of vinyl fluoride
- C09D 127/16 . . . Homopolymers or copolymers of vinylidene fluoride
- C09D 127/18 . . . Homopolymers or copolymers of tetrafluoroethene
- C09D 127/20 . . . Homopolymers or copolymers of hexafluoropropene
  
- C09D 127/22 . modified by chemical after-treatment
- C09D 127/24 . . halogenated

**C09D 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**

- C09D 129/02 . Homopolymers or copolymers of unsaturated alcohols ( [C09D 129/14](#) takes precedence )
- C09D 129/04 . . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids

- C09D 129/06 . . Copolymers of allyl alcohol
- C09D 129/08 . . . with vinyl aromatic monomers
- C09D 129/10 . Homopolymers or copolymers of unsaturated ethers ( [C09D 135/08](#) takes precedence )
- C09D 129/12 . Homopolymers or copolymers of unsaturated ketones
- C09D 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
- C09D 131/00** **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each havin 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**
- C09D 131/02 . Homopolymers or copolymers of esters of monocarboxylic acids
- C09D 131/04 . . Homopolymers or copolymers of vinyl acetate
- C09D 131/06 . Homopolymers or copolymers of esters of polycarboxylic acids
- C09D 131/08 . . of phthalic acid
- C09D 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**
- C09D 133/02 . Homopolymers or copolymers of acids; Metal or ammonium salts thereof
- C09D 133/04 . Homopolymers or copolymers of esters { [C09D 143/04](#) takes precedence }
- C09D 133/06 . . of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical
- C09D 133/062 . . . { Copolymers with monomers not covered by [C09D 133/06](#) }
- C09D 133/064 . . . . { containing anhydride, COOH or COOM groups, with M being metal or onium-cation }
- C09D 133/066 . . . . { containing -OH groups }
- C09D 133/068 . . . . { containing glycidyl groups }
- C09D 133/08 . . Homopolymers or copolymers of acrylic acid esters
- C09D 133/10 . . Homopolymers or copolymers of methacrylic acid esters
- C09D 133/12 . . . Homopolymers or copolymers of methyl methacrylate
- C09D 133/14 . . of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen
- C09D 133/16 . . . Homopolymers or copolymers of esters containing halogen atoms
- C09D 133/18 . Homopolymers or copolymers of nitriles
- C09D 133/20 . . Homopolymers or copolymers of acrylonitrile ( [C09D 155/02](#) takes precedence )



- C09D 133/22 . . Homopolymers or copolymers of nitriles containing four or more carbon atoms
- C09D 133/24 . Homopolymers or copolymers of amides or imides
- C09D 133/26 . . Homopolymers or copolymers of acrylamide or methacrylamide
  
- C09D 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**
  
- C09D 135/02 . Homopolymers or copolymers of esters ( [C09D 135/06](#) , [C09D 135/08](#) take precedence )
- C09D 135/04 . Homopolymers or copolymers of nitriles ( [C09D 135/06](#) , [C09D 135/08](#) take precedence )
- C09D 135/06 . Copolymers with vinyl aromatic monomers
- C09D 135/08 . Copolymers with vinyl ethers
  
- C09D 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**
  
- 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**
  
- C09D 139/02 . Homopolymers or copolymers of vinylamine
- C09D 139/04 . Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member
- C09D 139/06 . . Homopolymers or copolymers of N-vinyl-pyrrolidones
- C09D 139/08 . . Homopolymers or copolymers of vinyl-pyridine
  
- C09D 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**
  
- 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**

- C09D 143/02** . Homopolymers or copolymers of monomers containing phosphorus
- C09D 143/04** . Homopolymers or copolymers of monomers containing silicon
- C09D 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](#) )**
- C09D 145/02** . Coumarone-indene polymers
- C09D 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](#) to [C09D 121/00](#) )**
- 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**
- 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**
- 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 ) }
- C09D 151/006** . { grafted on to block copolymers containing at least one sequence of polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds }
- C09D 151/02** . grafted on to polysaccharides
- C09D 151/04** . grafted on to rubbers
- C09D 151/06** . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond
- C09D 151/08** . grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
- C09D 151/085** . . { on to polysiloxanes }
- C09D 151/10** . grafted on to inorganic materials
- C09D 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**

- C09D 153/005** . { Modified block copolymers }
- C09D 153/02** . Vinyl aromatic monomers and conjugated dienes
- C09D 153/025** . . { modified }
- C09D 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](#) to [C09D 153/00](#)**
- C09D 155/005** . { Homopolymers or copolymers obtained by polymerisation of macromolecular compounds terminated by a carbon-to-carbon double bond }
- C09D 155/02** . ABS [Acrylonitrile-Butadiene-Styrene] polymers
- C09D 155/04** . Polyadducts obtained by the diene synthesis
- C09D 157/00** **Coating compositions based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**
- C09D 157/02** . Copolymers of mineral oil hydrocarbons
- C09D 157/04** . Copolymers in which only the monomer in minority is defined
- C09D 157/06** . Homopolymers or copolymers containing elements other than carbon and hydrogen
- C09D 157/08** . . containing halogen atoms
- C09D 157/10** . . containing oxygen atoms
- C09D 157/12** . . containing nitrogen atoms
- Guidance heading:** **Coating compositions based on organic macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds**
- C09D 159/00** **Coating compositions based on polyacetals; Coating compositions based on derivatives of polyacetals**
- C09D 159/02** . Polyacetals containing polyoxymethylene sequence only
- C09D 159/04** . Copolyoxymethylenes
- C09D 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**
- C09D 161/02** . Condensation polymers of aldehydes or ketones only
- C09D 161/04** . Condensation polymers of aldehydes or ketones with phenols only

- C09D 161/06 . . of aldehydes with phenols
- C09D 161/12 . . . with polyhydric phenols
- C09D 161/14 . . . Modified phenol-aldehyde condensates
- C09D 161/16 . . of ketones with phenols
- C09D 161/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only
- C09D 161/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen ( [with amino phenols C09D 161/04](#) )
- C09D 161/22 . . of aldehydes with acyclic or carbocyclic compounds
- C09D 161/24 . . . with urea or thiourea
- C09D 161/26 . . of aldehydes with heterocyclic compounds
- C09D 161/28 . . . with melamine
- C09D 161/30 . . of aldehydes with heterocyclic and acyclic or carbocyclic compounds
- C09D 161/32 . . Modified amine-aldehyde condensates
- C09D 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](#)

**C09D 163/00 Coating compositions based on epoxy resins; Coating compositions based on derivatives of epoxy resins**

- C09D 163/04 . Epoxynovolacs
- C09D 163/06 . Triglycidylisocyanurates
- C09D 163/08 . Epoxidised polymerised polyenes
- C09D 163/10 . Epoxy resins modified by unsaturated compounds

**NOTE**

In groups [C09D 165/00](#) to [C09D 185/00](#) , in the absence of an indication to the contrary, adhesives based on macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified according to the linkage present in excess.

**C09D 165/00 Coating compositions based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain ( [C09D 107/00](#) to [C09D 157/00](#) , [C09D 161/00](#) take precedence ); Coating compositions based on derivatives of such polymers**

- C09D 165/02 . Polyphenylenes
- C09D 165/04 . Polyxylylenes

**C09D 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**

- C09D 167/02 . Polyesters derived from dicarboxylic acids and dihydroxy compounds ( [C09D 167/06 takes precedence](#) )
- C09D 167/025 . . { containing polyether sequences }
- C09D 167/03 . . the dicarboxylic acids and dihydroxy compounds having the carboxyl - and the hydroxy groups directly linked to aromatic rings
- C09D 167/04 . Polyesters derived from hydroxycarboxylic acids, e.g. lactones ( [C09D 167/06 takes precedence](#) )
- C09D 167/06 . Unsaturated polyesters having carbon-to-carbon unsaturation
- C09D 167/07 . . having terminal carbon-to-carbon unsaturated bonds
- C09D 167/08 . Polyesters modified with higher fatty oils or their acids, or with natural resins or resin acids
- C09D 169/00 Coating compositions based on polycarbonates; Coating compositions based on derivatives of polycarbonates**
- C09D 169/005 . { Polyester-carbonates }
- C09D 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**
- C09D 171/02 . Polyalkylene oxides
- C09D 171/03 . . Polyepihalohydrins
- C09D 171/08 . Polyethers derived from hydroxy compounds or from their metallic derivatives ( [C09D 171/02 takes precedence](#) ) { not used }
- C09D 171/10 . . from phenols { not used }
- C09D 171/12 . . . Polyphenylene oxides
- C09D 171/14 . . Furfuryl alcohol polymers
- C09D 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](#) to [C09D 171/00](#) ; Coating compositions based on derivatives of such polymers**
- C09D 173/02 . Polyanhydrides
- C09D 175/00 Coating compositions based on polyureas or polyurethanes; Coating compositions based on derivatives of such polymers**
- C09D 175/02 . Polyureas

- C09D 175/04 . Polyurethanes
- C09D 175/06 . . from polyesters
- C09D 175/08 . . from polyethers
- C09D 175/10 . . from polyacetals
- C09D 175/12 . . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
- C09D 175/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds
- C09D 175/16 . . . having terminal carbon-to-carbon unsaturated bonds
  
- C09D 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**
  
- C09D 177/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof ( [C09D 177/10](#) takes precedence )
- C09D 177/04 . Polyamides derived from alpha-amino carboxylic acids ( [C09D 177/10](#) takes precedence )
- C09D 177/06 . Polyamides derived from polyamines and polycarboxylic acids ( [C09D 177/10](#) takes precedence )
- C09D 177/08 . . from polyamines and polymerised unsaturated fatty acids
- C09D 177/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids
- C09D 177/12 . Polyester-amides
  
- C09D 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](#) to [C09D 177/00](#)**
  
- C09D 179/02 . Polyamines
- C09D 179/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
- C09D 179/06 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
- C09D 179/08 . . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
- C09D 179/085 . . . { Unsaturated polyimide precursors }
  
- C09D 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**
  
- C09D 181/02 . Polythioethers; Polythioether-ethers

- C09D 181/04 . Polysulfides
- C09D 181/06 . Polysulfones; Polyethersulfones
- C09D 181/08 . Polysulfonates
- C09D 181/10 . Polysulfonamides; Polysulfonimides

**C09D 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 main group and its subgroups, from 01.09.2010 onwards, new documents are classified according to the following system. The coating composition is identified with the C-Set, e.g. ( [C09D 183/04](#) , [C08L 83/04](#) ) (for a coating composition containing two or more siloxanes), while the information as to which different polymers are present in the coating composition is identified with additional indexing codes, e.g. [C08G 77/12](#) and [C08G 77/20](#) .

- C09D 183/02 . Polysilicates
- C09D 183/04 . Polysiloxanes
- C09D 183/06 . . containing silicon bound to oxygen-containing groups ( [C09D 183/12](#) takes precedence )
- C09D 183/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen
- C09D 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](#) )
- C09D 183/12 . . containing polyether sequences
- C09D 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 )
- C09D 183/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms

**C09D 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**

- C09D 185/02 . containing phosphorus
- C09D 185/04 . containing boron

**C09D 187/00** **Coating compositions based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**



C09D 187/005 . { Block or graft polymers not provided for in groups [C09D 101/00](#) to [C09D 185/04](#) }

**Guidance heading:** Coating compositions based on natural macromolecular compounds or on derivatives thereof ( based on polysaccharides [C09D 101/00](#) to [C09D 105/00](#) ; based on natural rubber [C09D 107/00](#) )

**C09D 189/00** Coating compositions based on proteins; Coating compositions based on derivatives thereof ( foodstuff preparations [A23J 3/00](#) )

C09D 189/005 . { Casein }

C09D 189/02 . Casein-aldehyde condensates

C09D 189/04 . Products derived from waste materials, e.g. horn, hoof or hair

C09D 189/06 . . derived from leather or skin

**C09D 191/00** Coating compositions based on oils, fats or waxes; Coating compositions based on derivatives thereof ( polishing compositions, ski waxes [C09G](#) ; soaps, detergent compositions [C11D](#) )

C09D 191/005 . { Drying oils }

C09D 191/02 . Vulcanised oils, e.g. factice

C09D 191/04 . Linoxyn

C09D 191/06 . Waxes

C09D 191/08 . . Mineral waxes

**C09D 193/00** Coating compositions based on natural resins; Coating compositions based on derivatives thereof ( polishing compositions [C09G](#) )

C09D 193/02 . Shellac

C09D 193/04 . Rosin

**C09D 195/00** Coating compositions based on bituminous materials, e.g. asphalt, tar, pitch

C09D 195/005 . { Aqueous compositions, e.g. emulsions }

**C09D 197/00** Coating compositions based on lignin-containing materials

C09D 197/002 . { Peat, lignite, coal ( briquettes [C10L 5/00](#) ; working-up peat ; ceramic products based on carbon or carbides ) }

C09D 197/005 . { Lignin }

C09D 197/007 . { Cork }

- C09D 197/02 . Lignocellulosic material, e.g. wood, straw or bagasse
- C09D 199/00 **Coating compositions based on natural macromolecular compounds or on derivatives thereof, not provided for in groups [C09D 189/00](#) to [C09D 197/00](#)**
- C09D 201/00 **Coating compositions based on unspecified macromolecular compounds**
- C09D 201/005 . { Dendritic macromolecules }
- C09D 201/02 . characterised by the presence of specified groups, { e.g. terminal or pendant functional groups }
- C09D 201/025 . . { containing nitrogen atoms }
- C09D 201/04 . . containing halogen atoms
- C09D 201/06 . . containing oxygen atoms {( [C09D 201/025](#) takes precedence )}
- C09D 201/08 . . . Carboxyl groups
- C09D 201/10 . . containing hydrolysable silane groups