CLAIMS

[Claim 1]

An antifouling coating composition comprising (A) a hydrolyzable copolymer comprising a structural unit (1) derived from triisopropylsilyl methacrylate (i), a structural unit (2) derived from 2-methoxyethyl (meth)acrylate (ii), and a structural unit (3) derived from a polymerizable monomer (iii) having a polymerizable double bond (with the proviso that triisopropylsilyl methacrylate and 2-methoxyethyl (meth)acrylate are excluded), (B) cuprous oxide having an average particle size of 4.5 to 50 μm, and (C) a rosin and/or a monocarboxylic acid compound,

wherein the rosin is selected from gum rosin, wood rosin, tall oil rosin, hydrogenated rosins and disproportionated rosins,

the monocarboxylic acid compound is selected from aliphatic or alicyclic monocarboxylic acids, and

the ratio (WA/WC) of the content (WA) of the hydrolyzable copolymer (A) to the content (WC) of the rosin and/or the monocarboxylic acid compound (C) is 97/3 to 30/70 by mass.

[Claim 2]

The antifouling coating composition according to Claim 1, wherein the ratio (WA/WC) of the content (WA) of the hydrolyzable copolymer (A) to the content (WC) of the rosin

and/or the monocarboxylic acid compound (C) is 99.9/0.1 to 30/70 by mass.

[Claim 3]

The antifouling coating composition according to Claim 1 or 2, further comprising at least one selected from the group consisting of an inorganic copper compound (D) except the cuprous oxide (B), an organic antifouling agent (E), a color pigment (F), an extender pigment (G), a pigment dispersant (H), a plasticizer (I), an anti-sagging agent (J), an anti-settling agent (K), a dehydrating agent (L) and a solvent (M).

[Claim 4]

The antifouling coating composition according to any one of Claims 1 to 3, wherein the content of volatile organic compound (VOC) is less than 400 g/L.

[Claim 5]

An antifouling coating film formed from the antifouling coating composition described in any one of Claims 1 to 4.

[Claim 6]

An antifouling substrate comprising a stack comprising a substrate and the antifouling coating film described in Claim 5.

[Claim 7]

The antifouling substrate according to Claim 6, which is placed in contact with seawater or freshwater.

[Claim 8]

The antifouling substrate according to Claim 6 or 7, wherein the substrate is at least one selected from the group consisting of underwater structures, ships and fishing gears.

[Claim 9]

A method for producing an antifouling substrate, comprising curing the antifouling coating composition described in any one of Claims 1 to 4 on a surface of a substrate to form an antifouling coating film.

[Claim 10]

A method for producing an antifouling coating composition, comprising mixing together (A) a hydrolyzable copolymer comprising a structural unit (1) derived from triisopropylsilyl methacrylate (i), a structural unit (2) derived from 2-methoxyethyl (meth)acrylate (ii), and a structural unit (3) derived from a polymerizable monomer (iii) having a polymerizable double bond (with the proviso that triisopropylsilyl methacrylate and 2-methoxyethyl (meth)acrylate are excluded), (B) cuprous oxide having an average particle size of 4.5 to 50 μm, (C) a rosin and/or a monocarboxylic acid compound, and optionally an additional component,

wherein the rosin is selected from gum rosin, wood rosin, tall oil rosin, hydrogenated rosins and disproportionated

rosins,

the monocarboxylic acid compound is selected from aliphatic or alicyclic monocarboxylic acids, and

the ratio (WA/WC) of the content (WA) of the hydrolyzable copolymer (A) to the content (WC) of the rosin and/or the monocarboxylic acid compound (C) is 97/3 to 30/70 by mass.