[CLAIMS]

[Claim 1]

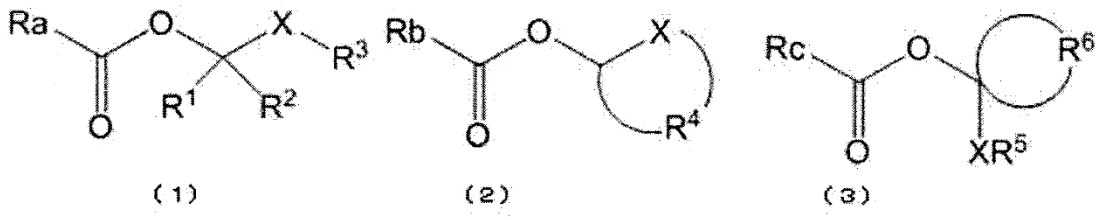
An antifouling paint composition, comprising:

at least one compound (A) selected from the group consisting of compounds represented by Formula (1), Formula (2), and Formula (3); and

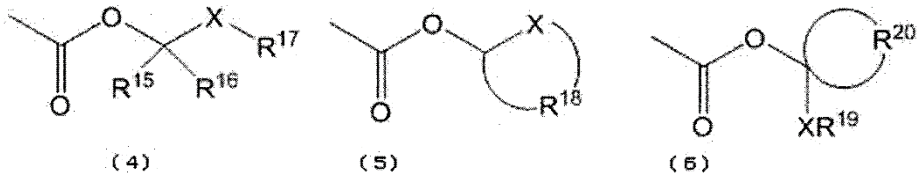
a vinyl-based copolymer (B),

wherein a ratio between the content of the compound (A) and the vinyl-based copolymer (B) is 0.1/99.9 to 70/30, and

wherein the vinyl-based copolymer (B) is a (meth)acrylic copolymer including at least one constituent unit selected from the group consisting of a constituent unit (u1) having at least one structure (I) represented by Formula (4), Formula (5), or Formula (6), a constituent unit (u2) containing a triorganosilyloxycarbonyl group, and a constituent unit (u3) having at least one structure (III) represented by Formula (7) or Formula (8).



(in the formulae, Ra, Rb, and Rc represent a hydrocarbon group having 1 to 40 carbon atoms; X represents -O-, -S-, or -NR^{14}-, where R^{14} represents a hydrogen atom or an alkyl group; R^1 and R^2 each represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; R^3 and R^5 each represents an alkyl group having 1 to 20 carbon atoms, a cycloalkyl group, or an aryl group; and R^4 and R^6 each represents an alkylene group having 1 to 10 carbon atoms),



(4) (5) (6)

(in the formulae, X represents -O-, -S-, or -NR^{21}-, where R^{21} represents a hydrogen atom or an alkyl group; R^{15} and R^{16} each represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; R^{17} and R^{19} each represents an alkyl group having 1 to 20 carbon atoms, a cycloalkyl group, or an aryl group; and R^{18} and R^{20} each represents an alkylene group having 1 to 10 carbon atoms),

-COO-M-OCO ··· (7)

-COO-M-R^{13} ··· (8)

(in the formulae, M represents Zn, Cu, Mg, or Ca; and R^{13} represents an organic acid residue other than a (meth)acryloyloxy group).

[Claim 2]

The antifouling paint composition according to Claim 1,

wherein Ra, Rb, or Rc of the compound (A) is a cyclic hydrocarbon residue derived from rosin.

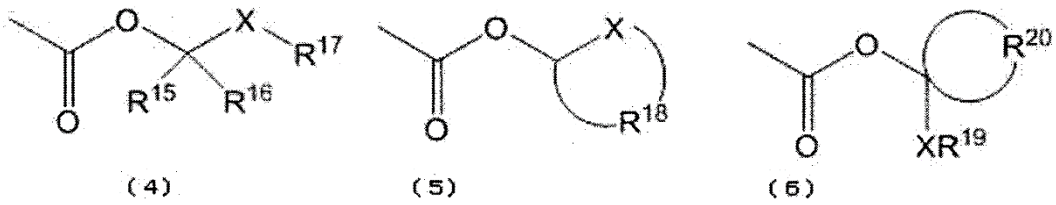
[Claim 3]

The antifouling paint composition according to Claim 1 or 2,

wherein the ratio between the content of the compound (A) and the vinyl-based copolymer (B) (content of compound (A)/content of vinyl copolymer (B)) is 0.1/99.9 to 49.3/50.7, and

wherein the vinyl-based copolymer (B) is a (meth)acrylic copolymer including at least one constituent unit selected from the group consisting of ~~a constituent unit (u1) having at least one structure (I) represented by Formula (4), Formula (5), or Formula (6),~~ a constituent unit (u2) containing a triorganosilyloxycarbonyl group, and a

constituent unit (u3) having at least one structure (III) represented by Formula (7) or Formula (8),



(in the formulae, X represents -O-, -S-, or -NR^{21}-, where R^{21} represents a hydrogen atom or an alkyl group; R^{15} and R^{16} each represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; R^{17} and R^{19} each represents an alkyl group having 1 to 20 carbon atoms, a cycloalkyl group, or an aryl group; and R^{18} and R^{20} each represents an alkylene group having 1 to 10 carbon atoms),

-COO-M-OCO ··· (7)

-COO-M-R^{13} ··· (8)

(in the formulae, M represents Zn, Cu, Mg, or Ca; and R^{13} represents an organic acid residue other than a (meth)acryloyloxy group).

[Claim 4]

The antifouling paint composition according to ~~any one of~~ Claim~~s~~ 1 ~~to 3~~ or 2, further comprising:

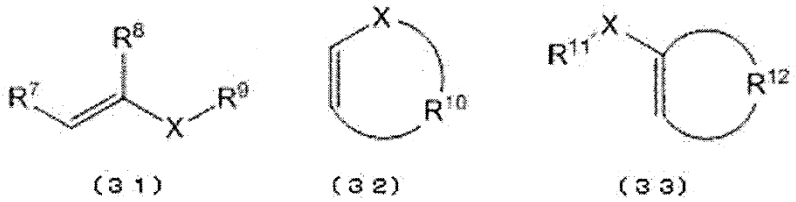
at least one selected from the group consisting of a compound that reacts with an acid, a basic compound, an acidic compound, and a dehydrating agent,

wherein the ratio between the content of the compound (A) and the vinyl-based copolymer (B) (content of compound (A)/content of vinyl copolymer (B)) is 0.1/99.9 to 49.3/50.7.

[Claim 5]

The antifouling paint composition according to Claim 4,

wherein the compound that reacts with an acid is at least one compound (Y3) selected from the group consisting of compounds represented by Formula (31), Formula (32), and Formula (33),



(31) (32) (33)

(in the formulae, X represents -O-, -S-, or -NR^{21}-, where R^{21} represents a hydrogen atom or an alkyl group; R^7 represents a hydrogen atom or an alkyl group having 1 to 9 carbon atoms; R^8 represents a hydrogen atom or an alkyl group having 1 to 10 carbon atoms; R^9 and R^{11} each represents an alkyl group having 1 to 20 carbon atoms, a cycloalkyl group, or an aryl group; R^{10} represents a single bond or an alkylene group having 1 to 9 carbon atoms; and R^{12} represents an alkylene group having 1 to 9 carbon atoms).

[Claim 6]

The antifouling paint composition according to ~~any one of~~ Claim~~s~~ 1~~ to 5~~or 2, further comprising an antifouling agent, wherein the ratio between the content of the compound (A) and the vinyl-based copolymer (B) (content of compound (A)/content of vinyl copolymer (B)) is 0.1/99.9 to 49.3/50.7.

[Claim 7]

The antifouling paint composition according to Claim 6,

wherein the antifouling paint composition contains, as the antifouling agent, at least one selected from the group consisting of cuprous oxide, pyridine triphenyl borane, 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one, 4-bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile, and medetomidine.