CLAIMS

1. Use of an antifouling coating composition for forming an antifouling coating film to prevent adhesion of aquatic fouling organisms, comprising:

a resin component (A); and

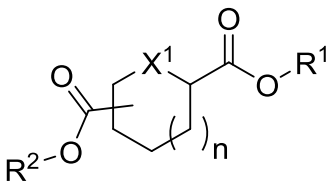
an ester compound (B), wherein the ester compound (B) is contained by 0.1 to 15 mass% in the solids of the composition; and

an antifouling agent,

characterized in that

the ester compound (B) comprises at least one ester compound represented by the following chemical formula (14), chemical formula (15), chemical formula (16) or chemical formula (19);

[chemical formula 14]



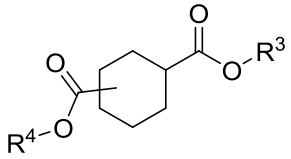
(14)

wherein, X^1 is a C0-C6 group which can include a hetero atom, wherein when the number of carbon atoms in X^1 is 0, X^1 is a hetero atom-containing group containing no carbon atom, and represents O, S, NH; each of R^1 and R^2 is a C1-C22 hydrocarbon group which can include a hetero atom, and the hydrocarbon group is aliphatic or aromatic, and has a linear, branched, or cyclic structure;

n is an integer of 0 to 5; and

the substituent group having R^2 is bonded to either one of the atoms structuring the cyclic structure;

[chemical formula 15]

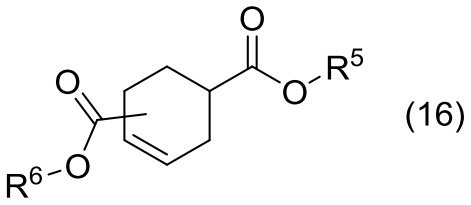


(15)

wherein, each of R^3 and R^4 is a C1-C22 hydrocarbon group which can include a hetero atom, and the hydrocarbon group is aliphatic or aromatic, and has a linear, branched, or cyclic structure; and

the substituent group having R^4 is bonded to either one of the atoms structuring the cyclic structure;

[chemical formula 16]

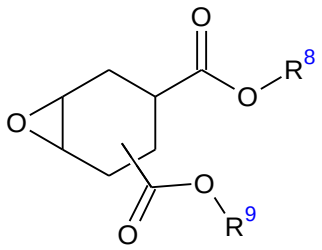


(16)

wherein, each of R^5 and R^6 is a C1-C22 hydrocarbon group which can include a hetero atom, and the hydrocarbon group is aliphatic or aromatic, and has a linear, branched, or cyclic structure; and

the substituent group having R^6 is bonded to either one of the atoms structuring the cyclic structure;

[chemical formula 19]



(19)

wherein, each of R^8 and R^9 is a C1-C22 hydrocarbon group which can include a hetero atom, and the hydrocarbon group is aliphatic or aromatic, and has a linear, branched, or cyclic structure; and

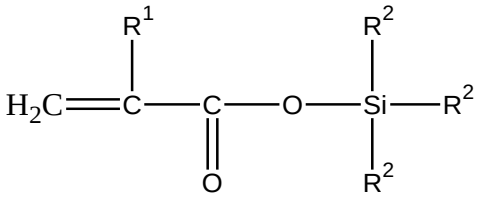
the substituent group having R^9 is bonded to either one of the atoms structuring the cyclic structure;

wherein the antifouling coating composition is further characterized in that

the resin component (A) being a polymer obtained from a monomer comprising one or more among monomer (a), monomer (b), monomer (c), and monomer (d).

(a) chemical formula (9):

[chemical formula 9]

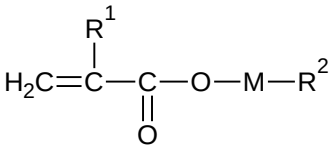


(9)

wherein, R^1 represents a hydrogen atom or a methyl group; three R^2 are the same or different from each other and represent a C3-C8 hydrocarbon group branched at its α-position or at its β-position; and the hydrocarbon group is an aliphatic or an aromatic group, and has a linear, branched, or ring structure;

(b) chemical formula (10):

[chemical formula 10]

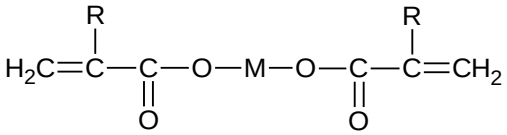


(10)

wherein, R^1 represents a group selected from a hydrogen atom and a methyl group, M represents a metal atom of Zn, Cu, or Mg, and R^2 represents an organic acid residue group;

(c) chemical formula (11):

[chemical formula 11]



(11)

wherein, two R are the same or different from each other and represent a group selected from a hydrogen atom and a methyl group, M represents a metal atom of Zn, Cu, or Mg; and

(d) an ethylenically unsaturated monomer other than monomer (a), monomer (b), and monomer (c).

2. Use of the antifouling coating composition of Claim 1, wherein the resin component (A) is a polymer obtained from a monomer comprising monomer (a).

3. Use of the antifouling coating composition of Claim 1 or 2, wherein the resin component (A) is a polymer obtained from a monomer comprising one or more of monomer (b) and monomer (c).

4. Use of the antifouling coating composition of any one of Claims 1

to 3, wherein the resin component (A) is a polymer obtained from a monomer comprising monomer (d).

5. A coated object having on its surface an antifouling coating film obtained by the use of the antifouling coating composition of any one of Claims 1 to 4.