CLAIMS

1. A (meth)acrylic copolymer comprising:

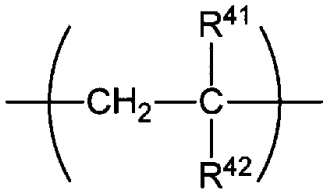
a constitutional unit (A2) having a triorganosilyloxycarbonyl group; and

a constitutional unit (B) derived from a macromonomer (b):

wherein the macromonomer (b) is a compound which has a radically polymerizable group and two or more constitutional units derived from a monomer having a radically polymerizable group, and,

wherein the macromonomer (b) is a macromonomer having two or more constitutional units represented by the following formula (b'):

[Chem. ~~1~~2]



... (b')

(where, R^{41} represents a hydrogen atom, a methyl group, or CH_2OH and R^{42} represents OR^{43}, a halogen atom, COR^{44}, $COOR^{45}$, CN, $CONR^{46}R^{47}$, or R^{48}, where R^{43} to R^{47} each independently represent a hydrogen atom, an unsubstituted or substituted alkyl group, an unsubstituted or substituted alicyclic group, an unsubstituted or substituted aryl group, an unsubstituted or substituted heteroaryl group, an unsubstituted or substituted nonaromatic heterocyclic group, an unsubstituted or substituted aralkyl group, an unsubstituted or substituted alkaryl group, or an unsubstituted or substituted organosilyl group and R^{48} represents an unsubstituted or substituted aryl group or an unsubstituted or substituted heteroaryl group).

2. The (meth)acrylic copolymer according to claim 1, wherein the macromonomer (b) is a macromonomer having a number average molecular weight of from 500 to 50000,

wherein the number average molecular weight of the macromonomer (b) is measured by gel permeation chromatography (GPC) using polystyrene as a reference substance.

3. A polymer-containing composition comprising the (meth)acrylic copolymer according to claim 1.

4. ~~The~~ An anti-fouling coating composition comprising a polymer-coating composition according to claim 3.

5. The anti-fouling coating composition according to claim 4, further comprising an anti-fouling agent.

6. The anti-fouling coating composition according to claim 5, wherein the anti-fouling agent contains at least one kind selected from the group consisting of cuprous oxide, 4-bromo-2-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile, pyridine-triphenylborane, and medetomidine.

7. The anti-fouling coating composition according to any one of claims 4 to 6, wherein a viscosity of the anti-fouling coating composition at 25°C is 5000 mPa·s or less as measured by a B-type viscometer.

8. The anti-fouling coating composition according to any one of claims 4 to 7, wherein a VOC content is 500 g/L or less wherein the VOC content is calculated by the following formula:

VOC content (g / L) = specific gravity of measurement sample × 1000 × (100 − solid content) / 100

wherein the specific gravity is determined as in the Examples under the heading "VOC Content" and the solid content is determined as in the Examples under the heading "Solid content (Heating Residue)".

9. The anti-fouling coating composition according to any one of claims 4 to 8, further comprising a thermoplastic resin other than the (meth)acrylic copolymer.

10. A method for producing a (meth)acrylic copolymer, the method comprising:

a step of obtaining a (meth)acrylic copolymer by polymerizing a monomer mixture containing

a monomer (a2) having triorganosilyloxycarbonyl group, and

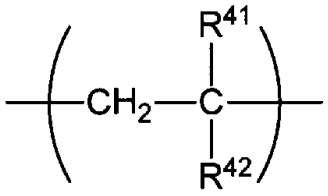
a macromonomer (b):

wherein the macromonomer (b) is a compound which has a radically polymerizable group and two or more constitutional units derived from a monomer having a radically polymerizable group, and,

wherein the macromonomer (b) is a macromonomer having two or more

constitutional units represented by the following formula (b'):

[Chem. 2]



・・・（b'）

(where, R^{41} represents a hydrogen atom, a methyl group, or CH_2OH and R^{42} represents OR^{43}, a halogen atom, COR^{44}, $COOR^{45}$, CN, $CONR^{46}R^{47}$, or R^{48}, where R^{43} to R^{47} each independently represent a hydrogen atom, an unsubstituted or substituted alkyl group, an unsubstituted or substituted alicyclic group, an unsubstituted or substituted aryl group, an unsubstituted or substituted heteroaryl group, an unsubstituted or substituted nonaromatic heterocyclic group, an unsubstituted or substituted aralkyl group, an unsubstituted or substituted alkaryl group, or an unsubstituted or substituted organosilyl group and R^{48} represents an unsubstituted or substituted aryl group or an unsubstituted or substituted heteroaryl group).