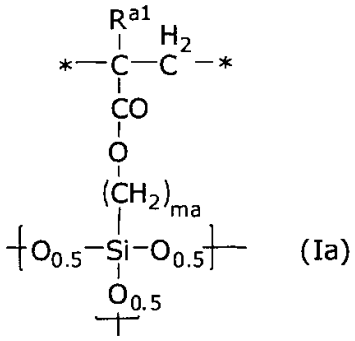
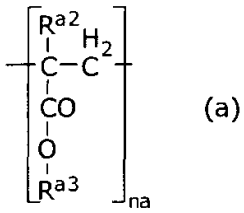
CLAIMS

1. A polysiloxane composition comprising:
an acrylic polymerized polysiloxane comprising:
a repeating unit represented by the formula (Ia):



(Ia)

(wherein,
R^{a1} is hydrogen or methyl, and
ma is each independently an integer of 1 to 6), and
an acrylic polymerization unit represented by the formula (a):



(a)

(wherein,
R^{a2} is independently hydrogen or methyl,
R^{a3} is hydrogen or a mono- to hexa-valent C_{1-50} hydrocarbon group, where one or more methylene in the hydrocarbon group may be replaced with oxy, amino, imino and/or carbonyl, and when R^{a3} is multivalent, R^{a3} connects carbonyloxy in the formula (a) and carbonyloxy contained in other repeating unit represented by the formula (a), and
na is an integer of 0 or more),
wherein the site marked with * in at least one repeating unit in

the formula (Ia) is connected directly or via an acrylic polymerization unit represented by the formula (a) to the site marked with * in other repeating unit represented by the formula (Ia);

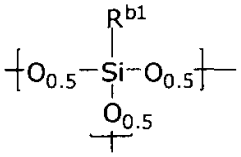
a diazonaphthoquinone derivative; and

a solvent.

2. The composition according to claim 1, wherein the number ratio of the repeating unit represented by the formula (Ia) is 10 to 100 mol% to the total number of the siloxane repeating units in the acrylic polymerized polysiloxane.

3. The composition according to claim 1 or 2, wherein the site marked with * in at least one repeating unit in the formula (Ia) is connected via an acrylic polymerization unit represented by said formula (a) to the site marked with * in other repeating unit of the formula (Ia).

4. The composition according to any one of claims 1 to 3, wherein the acrylic polymerized polysiloxane further comprises a repeating unit represented by the formula (Ib):



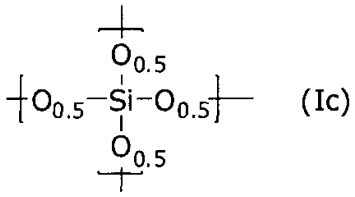
(Ib)

(wherein,
R^{b1} represents hydrogen, a linear, branched or cyclic, saturated or unsaturated C_{1-30}-aliphatic hydrocarbon group, or an aromatic hydrocarbon group,
where the aliphatic hydrocarbon group and aromatic hydrocarbon group are each unsubstituted or substituted with fluorine, hydroxy or alkoxy, and in the aliphatic hydrocarbon group and aromatic hydrocarbon group, methylene is not replaced, or one or more methylene are replaced with oxy, amino, imino or carbonyl, provided that R^{b1} is not hydroxy or

alkoxy).

5. The composition according to any one of claims 1 to 4, wherein the acrylic polymerized polysiloxane further comprises:

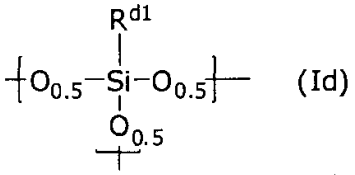
a repeating unit represented by the following formula (Ic):



(Ic)

and/or

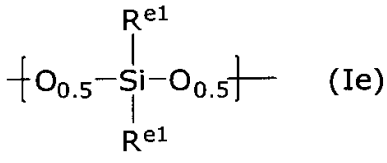
a repeating unit represented by the following formula (Id):



(Id)

(wherein,
R^{d1} is a group obtained by removing a plurality of hydrogens from a nitrogen and/or oxygen-containing cyclic aliphatic hydrocarbon compound that contains an amino group, an imino group and/or a carbonyl group).

6. The composition according to any one of claims 1 to 5, wherein the acrylic polymerized polysiloxane further comprises a repeating unit represented by the following formula (Ie):



(Ie)

(wherein,

R^{e1} is each independently represents hydrogen, a linear, branched or cyclic, saturated or unsaturated, C_{1-30} aliphatic hydrocarbon group, or an aromatic hydrocarbon group, said aliphatic hydrocarbon group and aromatic hydrocarbon group where each unsubstituted or substituted with fluorine, hydroxy or alkoxy, and in the aliphatic hydrocarbon group and aromatic hydrocarbon group, methylene is not replaced, or one or more methylene are replaced with oxy, amino, imino or carbonyl, provided that R^{e1} is not hydroxy or alkoxy).

7. The composition according to any one of claims 1 to 6, further comprising a silanol condensation catalyst.

8. A method for producing a cured film, comprising applying the composition according to any one of claims 1 to 7 on a substrate and heating.

9. The method for producing the cured film according to claim 8, whose adhesion strength to the alkali free glass substrate of said cured film measured by the stud pull test after heating at 350°C is 35 MPa or more.

10. A method for producing an electronic device comprising the method for producing the cured film according to claim 8 or 9.