CLAIMS

1. A polysiloxane composition comprising:

a polysiloxane;

a dicarboxylic acid having the first acid dissociation constant pKa_1 of 4.0 or less and represented by the following formula (II):

HOOC-L-COOH (II)

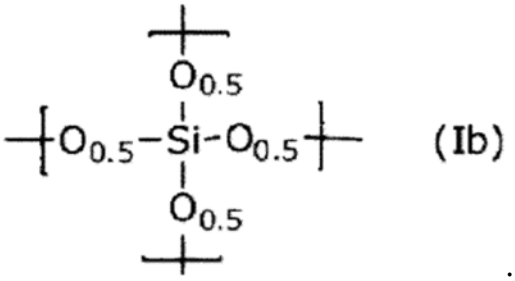
wherein,

L is a single bond, a hydroxy-substituted or amino-substituted alkylene having 1 to 6 carbon atoms, a substituted or unsubstituted alkenylene having 2 to 4 carbon atoms, a substituted or unsubstituted alkynylene having 2 to 4 carbon atoms, or a substituted or unsubstituted arylene having 6 to 10 carbon atoms; and

a solvent at a ratio of 50 to 99.9 mass% based on the polysiloxane composition,

wherein the ratio of mol number of the dicarboxylic acid to the mol number of the polysiloxane is 0.1 to 6.0;

wherein the polysiloxane comprises a repeating unit represented by the following formula (Ib):



(Ib)

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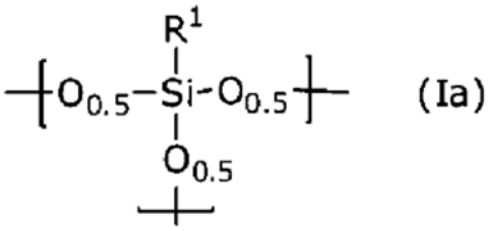
2. The composition according to claim 1, wherein L is a single bond, a hydroxy substituted alkylene having 2 to 4 carbon atoms, an unsubstituted alkenylene having one C=C bond and 2 to 4 carbon atoms, or an unsubstituted arylene having 6 to 10 carbon atoms.

3. The composition according to claim 1, wherein the dicarboxylic acid is selected from the group consisting of oxalic acid, maleic acid, fumaric acid, malic acid, and o-phthalic acid.

4. The composition according to claim 1, wherein the polysiloxane further comprises:
a repeating unit represented by the following formula (Ia):



(Ia)

wherein,
R^1 is hydrogen, a monovalent to trivalent, linear, branched or cyclic, saturated or unsaturated, aliphatic hydrocarbon group having 1 to 30 carbon atoms, or a monovalent to trivalent, aromatic hydrocarbon having 6 to 30 carbon atoms, in the aliphatic hydrocarbon group and the aromatic hydrocarbon group, one or more methylene are not replaced or replaced with oxy, imide or carbonyl, one or more hydrogens are not replaced or replaced with fluorine, hydroxy or alkoxy, and one or more carbons are not replaced or replaced with silicon, and
when R^1 is divalent or trivalent, R^1 connects Si atoms each other included in a plurality of repeating units,
wherein the ratio of the number of the repeating unit represented by Formula (Ib) to the total number of the repeating units represented by Formula (Ia) and Formula (Ib) contained in the polysiloxane is 1 to 100%.

5. The composition according to claim 4, wherein R^1 is selected from the group consisting of a hydrogen atom, methyl, ethyl and phenyl.

6. The composition according to claim 1, wherein the mass average molecular weight of the polysiloxane is 500 to 5,000.

7. The composition according to claim 1, wherein the ratio of mol number of the dicarboxylic acid to the mol number of the polysiloxane is 0.15 to 2.0.

8. A method for producing a siliceous film comprising applying the composition according to claim 1 on a substrate to form a coating film and heating the coating film.

9. An electronic device comprising the siliceous film according to claim 8.