CLAIMS

1. A curable composition comprising

(A) a hydrolyzable silyl group-containing polymer composed of

(1) a linear hydrolyzable silyl group-containing polymer, and

(2) a branched hydrolyzable silyl group-containing polymer, wherein the weight ratio of the linear hydrolyzable silyl group-containing polymer to the branched hydrolyzable silyl group-containing polymer is in a range of 1:9 to 9:1, and

(B) a microballoon,

wherein the curable composition has a specific weight of less than 1.15 and the hydrolyzable silyl group-containing polymer (A) has an average silylation ratio of 75 to 100% and/or the curable composition further comprises 1.5 wt.% or more, based on the weight of the curable composition, of an aliphatic hydrocarbon-based plasticizer (C) having an epoxy group.

2. The curable composition according to claim 1, the hydrolyzable silyl group-containing polymer (A) has a number-average molecular weight (Mn) of 3,000 to 60,000.

3. The curable composition according to claim 1 or 2, the hydrolyzable silyl group-containing polymer (A) has a molecular-weight distribution (Mw/Mn) of 1.0 to 2.0.

4. The curable composition according to any one of claims 1-3, containing 15 to 40 wt.%, based on the weight of the

curable composition, of the hydrolyzable silyl group-containing polymer (A).

5. The curable composition according to any one of claims 1-4, wherein the hydrolyzable silyl group-containing polymer (A) is one or more polymers selected from the group consisting of a modified silicone polymer, an acrylic polymer having an alkoxysilyl group, a polyisobutylene-based polymer having an alkoxysilyl group.

6. A urethane cross-linking type room-temperature curable composition according to any one of claims 1-5, wherein the microballoon (B) is a resin balloon coated with an inorganic fine powder which is treated with a titanate coupling agent or an aluminate coupling agent.

7. The curable composition according to any one of claims 1-6, wherein the microballoon (B) has an average particle diameter of 10 to 100 μm.

8. The curable composition according to any one of claims 1-7, wherein the microballoon (B) has a glass-transition temperature (Tg) of 50 to 200°C.

9. The curable composition according to any one of claims 1-8, containing 0.5 to 20 wt.%, based on the weight of the curable composition, of the microballoon (B).

10. The curable composition according to any one of claims 1-9, wherein the aliphatic hydrocarbon-based plasticizer

(C) having an epoxy group is an epoxidized olefin-based plasticizer.

11. The curable composition according to claim 10, wherein the epoxidized olefin-based plasticizer has 12 to 22 carbon atoms.

12. The curable composition according to any one of claims 1-11, further comprising a modulus regulator.

13. The curable composition according to claim 12, comprising 0.05 to 10 wt.%, based on the weight of the curable composition, of a modulus regulator.

Claims:

1. A curable composition comprising

(A) a hydrolyzable silyl group-containing polymer composed of

(1) a linear hydrolyzable silyl group-containing polymer, and

(2) a branched hydrolyzable silyl group-containing polymer,

wherein the weight ratio of the linear hydrolyzable silyl group-containing polymer to the branched hydrolyzable silyl group-containing polymer is in a range of 1:9 to 9:1, and

(B) a microballoon,

wherein the curable composition has a specific weight of less than 1.15, the linear hydrolyzable silyl group-containing polymer (A) (1) has a silylation ratio of 70 to 100%, the branched linear hydrolyzable silyl group-containing polymer (A) (2) has a silylation ratio of 70 to 100%, the hydrolyzable silyl group-containing polymer (A) has an average silylation ratio of 75 to 100% and the curable composition further comprises 1.5 wt.% or more, based on the weight of the curable composition, of an aliphatic hydrocarbon-based plasticizer (C) having an epoxy group.

2. The curable composition according to claim 1, the hydrolyzable silyl group-containing polymer (A) has a number-average molecular weight (Mn) of 3,000 to 60,000.

3. The curable composition according to claim 1 or 2, the hydrolyzable silyl group-containing polymer (A) has a molecular-weight distribution (Mw/Mn) of 1.0 to 2.0.

4. The curable composition according to any one of claims 1-3, containing 15 to 40 wt.%, based on the weight of the curable composition, of the hydrolyzable silyl group-containing polymer (A).

5. The curable composition according to any one of claims 1-4, wherein the hydrolyzable

silyl group-containing polymer (A) is one or more polymers selected from the group consisting of a modified silicone polymer, an acrylic polymer having an alkoxysilyl group, a polyisobutylene-based polymer having an alkoxysilyl group.

6. The curable composition according to any one of claims 1-5, wherein the microballoon (B) is a resin balloon coated with an inorganic fine powder which is treated with a titanate coupling agent or an aluminate coupling agent.

7. The curable composition according to any one of claims 1-6, wherein the microballoon (B) has an average particle diameter of 10 to 100 gm.

8. The curable composition according to any one of claims 1-7, wherein the microballoon (B) has a glass-transition temperature (Tg) of 50 to 200°C.

9. The curable composition according to any one of claims 1-8, containing 0.5 to 20 wt.%, based on the weight of the curable composition, of the microballoon (B).

10. The curable composition according to any one of claims 1-9, wherein the aliphatic hydrocarbon-based plasticizer (C) having an epoxy group is an epoxidized olefin-based plasticizer.

11. The curable composition according to claim 10, wherein the epoxidized olefin-based plasticizer has 12 to 22 carbon atoms.

12. The curable composition according to any one of claims 1-11, further comprising a modulus regulator.

13. The curable compostion according to claim 12, comprising 0.05 to 10wt.%, based on

the weight of the curable composition, of a modulus regulator.