CLAIMS

1. A coating film-forming composition that is capable of forming a coating film on a metal surface for improving adhesion to a resin,

the composition comprising:

an aromatic compound having an amino group and an aromatic ring in one molecule; and

at least one thio compound or a salt thereof selected from the group consisting of salts of sulfur oxoacids having a pKa of more than -1.9, thioacids and salts thereof, and sulfur-containing carboxylic acids and salts thereof.

2. The coating film-forming composition according to claim 1, wherein a pH of the coating film-forming composition is 4 to 10.

3. The coating film-forming composition according to claim 1 or 2, wherein the aromatic ring of the aromatic compound is a nitrogen-containing aromatic ring.

4. The coating film-forming composition according to any one of claims 1 to 3, wherein the aromatic compound has a primary amino group or a secondary amino group.

5. The coating film-forming composition according to any one of claims 1 to 4, wherein the aromatic compound has a silanol group or an alkoxysilyl group.

6. The coating film-forming composition according to any one of claims 1 to 5, wherein the thio compound is ionized to form anion in an aqueous solution.

7. The coating film-forming composition according to any one of claims 1 to 6, wherein the thio compound is thiosulfate or thiocyanate.

8. A method for producing a surface-treated metal member, comprising bringing the coating film-forming composition according to any one of claims 1 to 7 into contact with a surface of a metal member, thereby forming a coating film on the surface of the metal member.

9. The method for producing a surface-treated metal member according to claim 8, wherein after the coating film-forming composition is brought into contact with the surface of the metal member, the surface of the metal member is rinsed within 2 minutes.

10. The method for producing a surface-treated metal member according to claim 8 or 9, wherein the metal member is copper or a copper alloy.

11. A method for producing a metal-resin composite, comprising forming a coating film on a surface of a metal member by the method according to any one of claims 8 to 10, and then joining a resin member onto the coating film.