CLAIMS

[Claim 1]

A metal anticorrosion treatment method for a water system, which uses

a copolymer of a (meth)acrylic acid monomer and a sulfonic acid-containing monomer,

an anticorrosive organic acid compound having an organic acid corrosion-preventing effect index of 4 or more, and

a dicarboxylic acid-based polymer, wherein

the anticorrosive organic acid compound is an organic acid compound having a carboxylic acid group and a hydroxy group, and

a metal salt compound is not added in an amount of 0.1 mg/L or more.

[Claim 2]

The method according to claim 1, wherein the anticorrosive organic acid compound is iminodimalic acid.

[Claim 3]

The method according to claim 1 or 2, wherein the dicarboxylic acid-based polymer is one or two or more selected from the group consisting of a maleic acid-based polymer and polyepoxysuccinic acid.

[Claim 4]

The method according to claim 1 or 2, wherein the method is an anticorrosion method for a water system for suppressing the corrosion of a metal which is in contact with the water system.

[Claim 5]

A metal anticorrosion treatment agent for a water system, comprising

(A) a copolymer of a (meth)acrylic acid monomer and a sulfonic acid-containing monomer,

(B) a dicarboxylic acid-based polymer, and

(C) an anticorrosive organic acid compound having an organic acid corrosion-preventing effect index of 4 or more, wherein

the anticorrosive organic acid compound is an organic acid compound having a carboxylic acid group and a hydroxy group, and

a metal salt compound is not used in an amount of 0.1 mg/L or more in the water system.

[Claim 6]

A water treatment agent, comprising at least any of

(A) a copolymer of a (meth)acrylic acid monomer and a sulfonic acid-containing monomer,

(B) a dicarboxylic acid-based polymer, and

(C) an anticorrosive organic acid compound having an organic acid corrosion-preventing effect index of 4 or more, the anticorrosive organic acid compound being an organic acid compound having a carboxylic acid group and a hydroxy group, wherein

a combination of the component (A), the component (B), and the component (C) is used when the water treatment agent is used in the metal anticorrosion treatment of a water system, and a metal salt compound is not used in an amount of 0.1 mg/L or more in the water system.

[Claim 7]

A water treatment agent, comprising an anticorrosive organic acid compound having an organic acid corrosion-preventing effect index of 4 or more, the anticorrosive organic acid compound being an organic acid compound having a carboxylic acid group and a hydroxy group, wherein

the water treatment agent is used for enhancing the metal anticorrosion treatment of a water system with a copolymer of a (meth)acrylic acid monomer and a sulfonic acid-containing monomer and a dicarboxylic acid-based polymer without using a metal salt compound in an amount of 0.1 mg/L or more in the water system.

[Claim 8]

A method for enhancing the metal anticorrosion treatment of a water system with a copolymer of a (meth)acrylic acid monomer and a sulfonic acid-containing monomer and a dicarboxylic acid-based polymer without adding a metal salt compound in an amount of 0.1 mg/L or more in the water system,

wherein the method uses an anticorrosive organic acid compound having an organic acid corrosion-preventing effect index of 4 or more, the anticorrosive organic acid compound being an organic acid compound having a carboxylic acid group and a hydroxy group.