

Abstract

The aqueous coating agent for a steel material includes: polyurethane resin particles (A-1) and ethylene-unsaturated carboxylic acid copolymer resin particles (A-2); silicon oxide particles (B) having a mode size of 5 to 20 nm; an organic titanium compound (C); and a phthalocyanine pigment (F) coated with a resin or a surfactant or combination thereof, in which an amount of the phthalocyanine pigment (F) is 0.01 to 10 parts by mass with respect to a total of 100 parts by mass of the polyurethane resin particles (A-1) and the ethylene-unsaturated carboxylic acid copolymer resin particles (A-2), and a primary particle size of the phthalocyanine pigment (F) is 0.01 to 1.0 μm .

[No figure]