

ABSTRACT

SURFACE-TREATED STEEL SHEET

5 [Object]To provide a surface-treated steel sheet having excellent water condensation whitening resistance and corrosion resistance.

[Solution] A surface-treated steel sheet including: a steel sheet; a plating layer containing zinc and formed on a surface of the steel sheet; and a dry coating film formed on the plating layer, in which the dry coating film contains a resin component
10 containing resin particles made of a polyurethane resin with an average particle size of more than or equal to 20 nm and less than or equal to 200 nm, P, Ti, V, and Si, the dry coating film contains P at more than or equal to 2.5 mass% and less than or equal to 7.5 mass%, an area ratio of the resin component in a cross section of the dry coating film is more than or equal to 35% and less than or equal to 80%, the resin
15 particles are dispersed in the dry coating film, and a maximum value of a distance between centers of gravity of resin particles is less than or equal to 3.0 times an average particle size of the resin particle.

Representative Drawing

20 FIG. 1