

Abstract

**HOT-DIP ZINC ALLOY COATED STEEL SHEET EXCELLENT IN COATING
ADHESION, AND METHOD FOR PRODUCING THE SAME**

[Problem] To provide a steel plate which has been plated with a Zn-Al-Mg alloy by hot dipping and has excellent coating adhesion, using, as a raw plate to be plated, a steel to which B has been added to impart thereto resistance to molten-metal embrittlement and cracking. [Solution] A hot-dip galvanized steel plate having excellent coating adhesion which comprises said steel plate as a raw plate to be plated and a coating layer formed on the surface thereof by hot-dip galvanization and in which at least one oxide selected from oxides of Si alone, oxides of Mn alone, oxides of Cr alone, Si-Mn-based composite oxides, Si-Cr-based composite oxides, Mn-Cr-based composite oxides, and Si-Mn-Cr-based composite oxides is present in the area of the steel plate which ranges to a depth of 10 μm from the interface between the steel plate and the coating layer.

FIG: 1