

ABSTRACT

A water-base coating composition and a coated steel sheet coated with the water-base coating composition are provided, the composition being suitable for use in ships, bridges, etc. and having excellent gloss, coating film appearance and anticorrosion property. These properties do not deteriorate even in coating under high humidity conditions. The composition is a water-base coating composition including an aqueous dispersion type vinyl-modified epoxy ester resin and calcium carbonate, wherein the calcium carbonate is precipitated calcium carbonate treated with a salt of a vinyl polymer having a carboxyl group and is contained in the coating composition in a proportion of from 20 to 50% by volume in a solid content, and wherein the volume ratio of pigment/total solid content of the coating is 50% or less.