

ABSTRACT

Provided is a method that can conveniently and effectively reduce rain noise on a metal roof formed in an existing architectural structure and also suppress direct sunlight-induced temperature increase. The method includes: forming an intermediate coating layer on the outdoor side surface of a metal roof of an existing architectural structure, wherein the intermediate coating layer includes a dispersion of 30 to 300 parts by weight of inorganic particles in 100 parts by weight of a resin matrix derived from a urethane prepolymer and has a thickness of 50 to 1,000 μm ; and forming a top coating layer on the intermediate coating layer, wherein the top coating layer contains an infrared reflecting powder and/or an infrared transmitting powder, and water has a contact angle of 70° or less on the coating formed.