

ABSTRACT

The anticorrosion cover material of the present invention contains a (meth)acrylate monomer and a hydrophobic silica, the hydrophobic silica having an average particle diameter of 1 to 100 nm. The anticorrosion cover layer of the present invention includes a substrate conditioning layer formed of a hardened body of an alumina cement composition that contains an alumina cement, a pozzolan material, and an aggregate and an anticorrosion cover material layer formed, on the substrate conditioning layer, of a hardened body of the anticorrosion cover material of the present invention. The method for preventing corrosion of a concrete structure of the present invention includes a step of assembling a frame, a step of placing an alumina cement composition containing an alumina cement, a pozzolan material, and an aggregate into the frame to form a substrate conditioning layer, a step of removing the frame, and a step of applying the anticorrosion cover material of the present invention to form an anticorrosion cover material layer on the substrate conditioning layer. According to the present invention, it is possible to provide an anticorrosion cover material that facilitates repairing of a concrete structure degraded due to sulfuric acid or the like and that is superior in durability, an anticorrosion cover layer in which the anticorrosion cover material is used, and a method for preventing corrosion of a concrete structure in which the anticorrosion cover material is used.