

Reviews on the Geopolymer Materials for Coating Application

Abstract

The application of geopolymer has been expand in many areas where before this it only used for the production of cement and concrete. One of the new applications of geopolymer is for coating. Metakaolin, fly ash and granulated blast furnace slag has been used as source for the production of geopolymer coating. The result for the geopolymer coating showed that it can prevent corrosion in seawater structure, high bonding strength between existing structures (OPC concrete), lower water permeability and also stable during high temperature exposure.

Keywords; Bonding Strength, Coating, Corrosion, Fly Ash (FA), Granulated Blast Furnace Slag, Metakaolin (MK)