A Method for Forming a Titania-Coated Inorganic Particle

Abstract

A method of forming a titania-coated inorganic particle comprising the steps of (a) stirring a mixture of a titania precursor such as a titanium alkoxide and an inorganic particle such as a hollow glass particles in an organic solvent such as an alcohol for more than 1 h to cause adsorption of the titania precursor on the surface of the inorganic particle; and (b) adding water dropwise to the mixture under stirring to convert the titania precursor to titania which then forms a coating on the inorganic particle. A method for forming a paint formulation, a titania-coated inorganic particle, a paint formulation comprising a titania-coated inorganic particle and use of a titania-coated inorganic particle in a paint formulation is also described.

[Fig. 1]