

Method for coating the surface of inorganic solid particles,
in particular titanium dioxide pigment particles

Abstract

The invention relates to a method for coating the surface of inorganic solid particles in an aqueous suspension, particularly for coating titanium dioxide with SiO_2 . The method comprises the steps:

- a) Disagglomeration of the solid particles contained in aqueous suspension,
- b) Addition of a water-soluble precursor of the coating substance to the suspension,
- c) Immediately following Step b) homogenisation of the suspension, where the temperature and pH value of the suspension do not change significantly in Steps a) to c),
- d) Feeding the slurry into a tank and precipitation of the coating substance onto the particle surface and, optionally, application of further coatings,
- e) Separation of the solid particles from the suspension.

The method leads to a highly homogeneous and continuous skin on the particle surface, and to less separately precipitated coating substance.

Figure No. 1 is suggested for publication.