



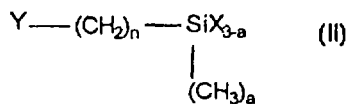
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(54) Title: METHOD AND COMPOSITIONS FOR DECORATING VITREOUS ARTICLES WITH RADIATION CURABLE INKS HAVING IMPROVED ADHESION AND DURABILITY



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(57) Abstract

A primer composition for radiation curable inks comprising 75–99.99 % water, 0.01–20 % of a silane coupling agent having general formula (II), and 0.001–20 % of a nonionic surfactant which is a polyethylene glycol glyceryl fatty acid ester, a method for pre-treating a vitreous article prior to application of organic radiation curable decorative indicia with said primer composition; and a method for applying decorative indicia to the surface of a vitreous article comprising the steps of (a) applying to the surface of the article a primer composition containing a solvent and a coupling agent capable of forming a chemical bond between the surface of the vitreous article and an organic, radiation curable composition, (b) applying an organic radiation curable ink composition over the primer composition in a desired design; (c) curing the organic ink composition on the article by exposing it to the radiation by which it is curable, thereby causing the coupling agent to form a chemical bond between the surface of the vitreous article and the cured organic ink composition; and a method for pre-treating vitreous articles.