

Title (en)

METHOD FOR THE SURFACE MODIFICATION OF TITANIUM DIOXIDE PIGMENT

Title (de)

VERFAHREN ZUR OBERFLÄCHENMODIFIZIERUNG VON TITANDIOXIDPIGMENT

Title (fr)

PROCÉDÉ DE MODIFICATION DE SURFACE DE PIGMENTS DE DIOXYDE DE TITANE

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Application

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Priority

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Abstract (en)

[origin: US2013074734A1] The invention relates to a method for the surface modification of titanium dioxide pigment and to its use, particularly in coatings, for interior and exterior walls (emulsion paints) and in water-borne paint systems. The method for surface modification is based on a titanium dioxide pigment that has been provided with a fluffily structured surface coating and where the fluffily structure of the surface coating is at least partially compacted, preferably by exposing the pigment particles to high shear and impact forces. The pigment particles are preferably coated with silicon oxide and/or aluminium oxide. The method according to the invention preferably reduces the specific surface area (BET) by roughly 30%. The pigment according to the invention can be used to optimise the rheological properties and the open time of the paint.

IPC 8 full level

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