

Title (en)

PSEUDOPLASTIC, AQUEOUS DISPERSIONS, METHOD FOR THEIR PRODUCTION AND USE THEREOF

Title (de)

STRUKTURVISKOSE, WÄSSRIGE DISPERSIONEN, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)

DISPERSIONS AQUEUSES A VISCOSITE INTRINSEQUE, PROCEDE DE PRODUCTION DE CES DISPERSIONS ET LEUR UTILISATION

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Application

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Abstract (en)

[origin: WO2005042647A1] The invention relates to pseudoplastic, aqueous dispersions containing solid and/or highly viscous particles (P) that remain dimensionally stable under storage conditions and during use and that are dispersed in a continuous aqueous phase (W). According to the invention, the dimensionally stable particles (P) contain surface-modified nanoparticles (N), whose surface is almost completely or completely covered with: (G1) modifying groups, which are covalently bonded to the surface by means of linking functional groups (a) and which contain inert groups (b) that act as spacers and reactive functional groups (c) that are connected to the (a) groups by means of the (b) groups and that are inert in relation to the reactive functional groups of the surface to be modified; and (G2) modifying groups, which are bonded to the surface by means of linking functional groups (a) that comprise at least one silicon atom and which contain inert groups (e), said modifying groups having a smaller hydrodynamic volume V_H than the modifying groups (G1). The invention also relates to a method for producing said dispersions and to the use thereof.

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