

Title (en)
METHOD FOR THE PRODUCTION OF A HIGHLY ABRASION-RESISTANT VEHICLE PAINT, VEHICLE PAINT, AND THE USE THEREOF

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES HOCH ABRIEBFESTEN FAHRZEUGLACKES, FAHRZEUGLACK UND DESSEN VERWENDUNG

Title (fr)
PROCÉDÉ DE PRODUCTION D'UNE PEINTURE POUR VÉHICULE PRÉSENTANT UNE HAUTE RÉSISTANCE À L'ABRASION, PEINTURE POUR VÉHICULE ET SON UTILISATION

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Abstract (en)
[origin: WO2009115079A1] The invention relates to a method for the production of a highly abrasion-resistant vehicle paint, a vehicle paint, and the use thereof. In order to create a vehicle paint having extremely high scratch and chemical resistance, particularly for use in multi-layer coating for OEM series coating (particularly as a clear coat or base cast), the invention provides a method for the production of a highly abrasion-resistant vehicle paint, comprising the following steps: a. providing at least one organic monomer, oligomer, prepolymer, or organosilanes having one or more organic functional groups, or mixtures thereof, b. saturating the functional groups described in a. by reacting them with silanes having organic side chains containing one or more corresponding functional groups, wherein the resulting silane has at least six SiOR groups and a molar mass of greater than 300, c. absorbing the resulting macro-molecular silanes in solvent, preferably a protic or aprotic solvent, or mixtures thereof, d. adding reaction partners, particularly acids, Lewis acids, bases or Lewis bases, e. applying the vehicle paint created in this manner onto a substrate, and f. curing the coating material.

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