

Title (en)  
METHOD FOR COATING SUBSTRATES WITH COATING SYSTEMS CONTAINING REACTIVE HYDROPHOBIC INORGANIC FILLERS

Title (de)  
VERFAHREN ZUR BESCHICHTUNG VON SUBSTRATEN MIT BESCHICHTUNGSSYSTEMEN ENTHALTEND REAKTIVE HYDROPHOBE ANORGANISCHE FÜLLSTOFFE

Title (fr)  
PROCEDE D'ENDUCTION DE SUBSTRATS AU MOYEN DE SYSTEMES DE REVETEMENT CONTENANT DES CHARGES INORGANIQUES HYDROPHOBES REACTIVES

Publication  
**EP 1943315 A2 20080716 (DE)**

Application  
**EP 06807002 A 20061005**

Priority

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Abstract (en)  
[origin: WO2007051682A2] The invention relates to a method for coating substrates, comprising the following steps: a) a substrate that is no natural stone and/or freestone is provided; b) a composition is applied to at least one surface of the substrate, said composition containing a silane of general formula  $(Z<sup>1</sup>)<sub>3</sub>Si(OR)<sub>3</sub>$ , wherein  $Z<sup>1</sup>$  represents R, OR, or Gly (Gly=3-glycidyloxypropyl) while R represents an alkyl radical with 1 to 18 carbon atoms and all R can be identical or different, oxide particles selected among the oxides of Ti, Si, Zr, Al, Y, Sn, Zn, Ce, or mixtures thereof, organic radicals  $SiR'<sub>3</sub>$  that are bonded to the surface of the oxide particles being provided, wherein R' has general formula  $C<sub>n</sub>X<sub>i+2n</sub>$  in which  $n = 1$  to 20, X = hydrogen and/or fluoride, all R' can be identical or different, and the organic  $SiR'<sub>3</sub>$  radicals can be separated, and an initiator; and c) the composition applied in step b) is dried. Also disclosed is a coated substrate that can be obtained by means of the inventive method.

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