

Title (en)

METHOD FOR APPLYING A HYDROPHOBIC COATING TO THE SURFACE OF A POROUS SUBSTRATE, MAINTAINING ITS POROSITY

Title (de)

VERFAHREN ZUR HYDROPHOBIERUNG DER OBERFLÄCHE EINES PORÖSEN SUBSTRATS UNTER BEIBEHALTUNG SEINER POROSITÄT

Title (fr)

PROCEDE D'IMPERMEABILISATION DE LA SURFACE D'UN SUBSTRAT TOUT EN CONSERVANT SA POROSITE

Publication

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Application

EP 03795121 A 20030815

Priority

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Abstract (en)

[origin: WO2004024407A1] According to the invention, at least one reagent containing Si-H groups is brought into contact with the surface of the substrate that is to receive the hydrophobic coating in the presence of an activator, which contains at least one organometallic compound of a metal of the subgroup IV or II of the periodic table. The organometallic compound is preferably selected from organotitanium, organozirconium and organozinc compounds and can be a titanate acid ester selected in particular from tetrabutyl titanate, tetraethyl titanate, tetrapropyl titanate, tetraisopropyl titanate, tetraisooctyl titanate and tetrakis(2-ethylhexyl)titanate, a zirconic acid ester selected in particular from tetrabutyl zirconate, tetraoctyl zirconate and tetrakis(2,4 pentane dionato)zirconate or a zinc acid ester such as dioctyl zincate. Preferably, the organometallic compound can be easily hydrolyzed.

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See references of WO 2004024407A1

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