

Title (en)  
HYDROPHILIC COATING BASED ON POLYSILAZANE

Title (de)  
HYDROPHILE BESCHICHTUNG AUF POLYSILAZANBASIS

Title (fr)  
REVETEMENT HYDROPHILE A BASE DE POLYSILAZANE

Publication  
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Application  
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Abstract (en)  
[origin: WO2005066285A2] The invention relates to hydrophilic coating for surfaces, containing one or several polysilazanes and an ionic reagent or mixtures of ionic reagents. The polysilazane is, in particular, a polysilazane of formula 1,  $(\text{SiR}'\text{R}''\text{-NR}''')_n$  (1), wherein R', R'', R''' can be identical or different and are either hydrogen or organic or metalorganic radicals. n is measured in such a manner that the polysilazane has a numerical average molecular weight ranging from 150 - 150.000 g/mol. In a preferred embodiment, the polysilazane is a perhydropolysilazane (R'=R''=R''' = H). The ionic reagent is, preferably, a salt of a carboxylic acid, in particular a hydroxycarboxylic acid, or a cationic or anionic silane, or an oligomer or polymer. The invention also relates to a method for the production of the above-mentioned hydrophilic coatings.

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