

Title (en)
ALKALI-STABLE SOL-GEL COATING

Title (de)
ALKALISTABILE SOL-GEL-BECHICHTUNG

Title (fr)
REVETEMENT SOL-GEL STABLE AUX ALCALINS

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Application
EP 06742406 A 20060612

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Abstract (en)
[origin: CA2611868A1] The invention relates to alkali-stable sol-gel coatings, to a method for producing alkali-stable sol-gel coatings, and to the use thereof. According to the invention, in order to obtain alkali-stable sol-gel coatings, the coating contains the following: a hydrolysable silane of the compounds TEOS, MTEOS or higher-chained alkyl silanes (bifunctional, trifunctional and tetrafunctional silanes), but preferably TEOS, MTEOS or mixtures thereof; and a condensation catalyst based on a) secondary or tertiary bases (e.g. amino, mercaptosilanes) and/or b) Lewis acids as metal alkoxides such as aluminium alkoxides, zirconium alkoxides, and titanium alkoxides, the ratio (in wt. %) of the hydrolysable silane to the condensation catalyst being between 99:1 and 70:30.

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