

Title (en)

ADHESION PROMOTER IN CONVERSION SOLUTIONS

Title (de)

HAFTVERMITTLER IN KONVERSIONSLÖSUNGEN

Title (fr)

AGENT ADHESIF DANS DES SOLUTIONS POUR CONVERSION

Publication

**EP 1292719 A1 20030319 (DE)**

Application

**EP 01957837 A 20010609**

Priority

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- EP 0106546 W 20010609

Abstract (en)

[origin: WO0198557A1] The invention relates to an aqueous solution for producing a conversion coating on metal surfaces. The solution has a pH value of 1.5 to 6 and contains complex fluorides of Ti, Zr, Hf, Si and/or B in quantities corresponding to a Ti, Zr, Hf, Si and/or B content of 20 to 500 mg/l; and 0.1 to 2 g/l adhesion-promoting coating additives. The composition of the aqueous solution is selected with the aim of ensuring that no crystalline zincous phosphate layer appears on the metallic surface. The coating additive preferably contains an element M selected from the following: B, Al, Si, Ti and Zr. At least one hydroxyl group and or one or more organic radicals is/are preferably bonded to said element. The organic radical or organic radicals R is/are chosen, independently of each other, from hydrocarbon radicals with 3 to 16 C-atoms or radicals (CH<sub>2</sub>)<sub>x</sub>-Y, x meaning a whole number from 1 to 10 and Y representing a hydroxyl group, a mercapto group, a primary or secondary amino group, a carboxyl group, an acrylic or methacrylic acid radical or an oxirane group or a molecule fragment containing one or more of the aforementioned groups or acid radicals, respectively.

IPC 1-7

**C23C 22/34; C23C 22/36**

IPC 8 full level

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