

Title (en)

CORROSION INHIBITION AND IMPROVEMENT OF ADHESION CHARACTERISTICS OF REINFORCING METALS

Title (de)

KORROSIONSINHIBIERUNG UND VERBESSERUNG DER VERBUNDEIGENSCHAFTEN VON ARMIERUNGSMETALLEN

Title (fr)

INHIBITEURS DE CORROSION ET AMELIORATION DES PROPRIETES D'ADHERENCE DE METAUX D'ARMATURE

Publication

**EP 0755462 A1 19970129 (DE)**

Application

**EP 96904249 A 19960319**

Priority

- CH 108095 A 19950413
- IB 9600244 W 19960319

Abstract (en)

[origin: WO9632522A1] The novel process serves simultaneously to inhibit corrosion and to improve adhesion characteristics of reinforcing metals for and in cement systems. It involves surface treatment of the metal parts by Fe-, Ca/Zn, Zn or Mn-phosphatisation and subsequent surface treatment using an aqueous solution or slurry of reducing and/or passivating compounds (such as nitrites, chromates, hydrazine or hydrazine derivatives, hydroxylamine or hydroxylamine derivatives), and/or organic corrosion inhibitors. If necessary, the phosphate layers can undergo subsequent impregnation with non-aqueous or aqueous solutions of other corrosion inhibitors, e.g. vapour phase inhibitor, adhesive promoters, metal-non-metal sols and/or concrete/cement additives.

IPC 1-7

**C23C 22/08**; **E04C 5/01**

IPC 8 full level

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CPC (source: EP)

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