

Title (en)

Process for making a polymer film on a metallic substrate, concentrate and treatment solution for this purpose

Title (de)

Verfahren zur Herstellung eines polymeren Filmes auf einer Metalloberfläche sowie Konzentrat und Behandlungsflüssigkeit hierfür

Title (fr)

Procédé pour fabriquer un film polymérique sur un substrat, concentré et liquide de traitement pour se faire

Publication

EP 1088598 B1 20060315 (DE)

Application

EP 00120052 A 20000915

Priority

DE 19947233 A 19990930

Abstract (en)

[origin: EP1088598A2] A method for the treatment of metal surfaces involves coating with a liquid containing a film-forming resin and a water-miscible or -soluble solvent and/or water, which is at a temperature (T) of 10-100 degrees C when applied to the surface, while the temperature of the metal surface is in the range 30-700 degrees C but at least 20 degrees C above T. A method for producing a plastic film on a metal surface by coating with a liquid (I) containing (A) 0.1-50 wt% non-volatile film-forming, resin-containing mixture and (B) 99.9-50 wt% water-miscible and/or water-soluble solvent and/or water and then removing volatiles, in which the temperature of the liquid (T) at the start of the coating process is 10-100 degrees C, the metal temperature is in the range 30-700 degrees C but at least 20 degrees C above T, and the film is used for treatment of the metal surface. Independent claims are also included for the following: (a) treatment liquid (I) as described above, at (T = 10-100 degrees C), with a composition such that it shows essentially no coagulation during the working time and service time and at the film-forming temperature, essentially no sedimentation or decomposition and essentially no change in mol. wt. distribution or viscosity in use; (b) a concentrate for the production of (I) which contains 1-90 wt% (A) and 99-10 wt% (B), with a composition such that the concentrate (and I) shows no coagulation, sedimentation or decomposition in storage or in use (see above) and no change in mol. wt. distribution or viscosity in storage or in use.

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