

Method for Coating Metallic Surfaces of Substrates and Objects Coated**According to Said Method**

The invention relates to a method for coating surfaces, a corresponding coating and the use of objects coated according to said method. According to the invention, the problem is addressed by a method for coating metallic surfaces of substrates comprising or consisting of the steps: I. Providing a substrate with a cleaned, metallic surface, II. Contacting and coating metallic surfaces with an aqueous composition in the form of a dispersion and/or suspension, IX. If applicable, rinsing the organic coating and X. Drying and/or baking the organic coating or XI. If applicable, drying the organic coating and coating with an equivalent or additional coating composition prior to a drying and/or baking, characterised in that, in step II, the coating takes place with an aqueous composition in the form of a dispersion and/or suspension, wherein at least one anionic polyelectrolyte, in a quantity of 0.01 to 5.0 wt.% relative to the total mass of the resulting mixture, is added to a dispersion of film-forming polymers and/or a suspension of film-forming inorganic particles having a solids content of 2 to 40 wt.% and an average particle size from 10 to 1000 nm, wherein the aqueous composition has a pH value in the range of 4 to 11 and forms a coating on the basis of an ionogenic gel which binds cations released from the metallic surface and said cations originate from a pretreatment stage and/or from the contacting in step II.

(No suitable figure)