

Title (en)

POWDER COATING AND ITS USE FOR THE INTERNAL COATING OF PACKING CONTAINERS

Title (de)

PULVERLACK UND DESSEN VERWENDUNG ZUR INNENBESCHICHTUNG VON VERPACKUNGSBEHÄLTERN

Title (fr)

PEINTURE PULVERULENTE ET SON UTILISATION EN REVETEMENT INTERIEUR DE RECIPIENTS D'EMBALLAGE

Publication

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Application

EP 96930968 A 19960827

Priority

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Abstract (en)

[origin: DE19531585A1] The present invention concerns a powder coating based on epoxy resins and phenolic hardeners, in particular for the internal coating of packing containers, and containing: 1) at least one epoxy resin with an epoxide-equivalent weight of between 300 and 5500; and at least one hardener with more than one phenolic hydroxyl group per molecule and a hydroxyl-equivalent weight, relative to phenolic OH groups, of between 100 and 500; the powder coating having a grain size distribution such that: a) at least 90 mass % of the powder coating particles have a particle size of between 1 and 60 μm ; b) the maximum particle size of the powder coating particles for at least 99 mass % of the particles is $\leq 100 \mu\text{m}$; c) the average particle size of the powder coating particles is between 5 and 20 μm ; and d) the slope of the grain distribution curve at the inflection point is ≥ 100 ; and 2) a lubricant, preferably in an amount of $\leq 2 \text{ wt.}\%$.

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