

Title (en)

PROCESS OF DECORATION OF POWDER COATED SUBSTRATES

Title (de)

VERFAHREN ZUR VERZIERUNG VON PULVERBESCHICHTETEN SUBSTRATEN

Title (fr)

PROCESSUS DE DÉCORATION DE SUBSTRATS MUNIS D'UN REVÊTEMENT EN POUDRE

Publication

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Application

EP 08854641 A 20081124

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Abstract (en)

[origin: EP2065218A1] The present invention is directed to process of decorating a powder coated substrate comprising the steps (a) treating a substrate surface to be coated, (b) applying a powder coating composition on the treated substrate surface and curing the powder coating composition, and (c) covering the cured powder coating with a support comprising a decoration, and transfer the decoration onto the coated substrate surface by heating, wherein a powder coating composition is used comprising (A) 30 to 80 wt% of a mixture of at least one polyester resin A having a hydroxyl number in the range of 30 to 60 mg KOH/g, a weight average molar mass Mn in a range of 3100 to 5000 and a glass transition temperature Tg of 40 to 60 °C and at least one polyester resin B having a hydroxyl number in the range of 250 to 350 mg KOH/g, a weight average molar mass Mn in a range of 2000 to 3000, (B) 10 to 40 wt% of at least one hardener selected from the group consisting of diisocyanates, polyisocyanates and urethdiones, and (C) 0,01 to 40 wt% of at least one coating additive, pigment and/or filler, the wt% being based on the total weight of the powder coating composition, and wherein the transfer by heating is performed in a temperature range between 160 °C and 220 °C. The process provides a coated substrate surface with permanent decorations on it and additionally with a very good anti-graffiti performance for a long time period.

IPC 8 full level

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