Title (en)

PHOTODEGRADATION-RESISTANT ELECTRODEPOSITABLE COATING COMPOSITIONS AND PROCESSES RELATED THERETO

Title (de)

PHOTODEGRADIERUNGUNGSBESTÄNDIGE ELEKTROTAUCH-ÜBERZUGSZUSAMMENSETZUNGEN SOWIE VERFAHREN DIE SICH DARAUF BEZIEHEN

Title (fr)

COMPOSITIONS DE REVETEMENT APPLICABLE PAR ELECTRODEPOSITION RESISTANT A LA PHOTODEGRADATION ET LEURS PROCEDES DE FORMATION

Publication

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Application

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Abstract (en)

[origin: WO02070613A2] The invention provides a process for coating a substrate including electrodepositing an electrodepositable composition on the substrate, heating the coated substrate to cure the coating thereon, applying over the cured electrodeposited coating one or more pigment-containing coating compositions and/or one or more pigment-free coating compositions to form a top coat thereover, and heating the coated substrate to cure the top coat. The elecrodepositable composition is formed from an ungelled cationic salt group-containing resin where the salt groups are formed from pendant and/or terminal amino groups, and an at least partially blocked aliphatic polyisocyanate curing agent. Also provided is a photodegradation resistant multi-layer composite coating of a primer layer formed from the electrodepositable composition and a top coat thereover, where the composite coating exhibits substantially no interlayer delamination upon concentrated solar spectral irradiance exposure equivalent to two years outdoor weathering. The invention further provides improved processes for electrophoretically coating a substrate.

IPC 1-7

C09D 5/44; C25D 13/06; B05D 7/00

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Citation (search report)

See references of WO 02070613A2

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