

Title (en)

METHOD FOR PRODUCING SCRATCH RESISTANT COATINGS, ESPECIALLY FOR PRODUCING MULTI-LAYER ENAMELS

Title (de)

VERFAHREN ZUR HERSTELLUNG KRATZFESTER BESCHICHTUNGEN, INSBESONDERE ZUR HERSTELLUNG VON MEHRSCICHTLACKIERUNGEN

Title (fr)

PROCEDE DE PRODUCTION DE REVETEMENTS RESISTANT AUX ERAFLURES, EN PARTICULIER POUR DES PEINTURES MULTICOUCHES

Publication

**EP 0964896 A1 19991222 (DE)**

Application

**EP 98913655 A 19980306**

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Abstract (en)

[origin: DE19709465A1] The invention relates to a method for producing scratch resistant coatings, especially scratch resistant multi-layer enamels, characterized in that the coating agents used contain; 1) a storage module E' in the rubber elastic range of at least  $10^{7.5}$  Pa and a dissipation loss factor  $\tan \delta$  of at least 0.05 at 20°C after hardening, the storage module E' and the dissipation loss factor having been measured by dynamic mechanical thermo-analysis on free films with a layer thickness of 40 +/- 10  $\mu$ m; 2) one or several polyacrylate resins with a hydroxyl value from 100 to 240, an acid value from 0 to 35 and a number average molecular weight of 1,500 to 10,000 as bonding agents; and 3) as a cross-linking agent one or more free or blocked isocyanates and/or triazine based constituents cross-linking hydroxyl groups of the binding agent to form ether and/or ester. The invention also relates to coating agents which are suited to this method.

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Technische Informationsblätter zu Luwipal 018 und Nacure Progress in Organic Coatings, Vol. 14, 1986, Seiten 23-43 Bieleman J., Lackadditive, Wiley-VCH, Weinheim, 1998, Seiten 242-271 Broschüre K-KAT Catalysts in Specialty Products for Coatings & Inks, King Industries

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