

Title (en)
Pulverulent polyurethane varnishes.

Title (de)
Pulverförmige Polyurethanlacke.

Title (fr)
Vernis pulvérulents à base de polyuréthane.

Publication
EP 0000798 A1 19790221 (DE)

Application
EP 78200117 A 19780725

Priority
DE 2735497 A 19770806

Abstract (en)
[origin: US4246380A] A powdery polyurethane lacquer which comprises (a) a hydroxyl-group containing polyester resin with an OH number of 40-240 and (b) an epsilon -caprolactam-blocked polyisocyanate, selected from the group consisting of triisocyanatoisocyanurate of 3-isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanate and mixtures of said triisocyanatoisocyanurate with monomeric or oligomeric 3-isocyanatomethyl-3,5,5-trimethyl-cyclohexylisocyanate; wherein the epsilon -caprolactam-blocked triisocyanatoisocyanurate has at least two blocked isocyanate groups and wherein the epsilon -caprolactam-polyisocyanate is present in an amount sufficient to cause hardening of said mixture of (a) and (b). The lacquer is especially useful for electrostatic coating of substrates.

Abstract (de)
Gegenstand sind pulverförmige Polyurethanlacke aus hydroxylgruppenhaltigen Polyestern, Polyacrylaten oder Epoxidharzen und - Caprolactam- blockierten Polyisocyanaten, wobei als Polyisocyanatkomponente das Triisocyanatoisocyanurat des 3-Isocyanatomethyl- 3,5,5-trimethylcyclohexylisocyanat und gegebenenfalls Oligomere zusammen mit monomerem 3-Isocyanatomethyl- 3,5,5- trimethylcyclohexylisocyanat eingesetzt wird. Besonders vorteilhaft wird das in situ hergestellte Isocyanat/Isocyanurat - Gemisch direkt eingesetzt.

IPC 1-7
C08G 18/80; **C08G 18/79**

IPC 8 full level
C08G 18/00 (2006.01); **C08G 18/73** (2006.01); **C08G 18/79** (2006.01); **C09D 5/03** (2006.01); **C08G 18/80** (2006.01); **C09D 5/46** (2006.01); **C09D 175/00** (2006.01)

CPC (source: EP US)
C08G 18/792 (2013.01 - EP US); **C08G 18/8074** (2013.01 - EP US); **C08G 2150/20** (2013.01 - EP US); **Y10S 528/902** (2013.01 - EP US); **Y10T 428/2982** (2015.01 - EP US)

Citation (applicant)
• DE 1957483 A1 19710527 - BAYER AG
• DE 2105777 A1 19720824 - VEBA CHEMIE AG [DE]

Cited by
EP0538597A1; EP0026448A1; EP0579042A3; EP0075206A1; EP0023023A1; GB2185988A; EP0139830A3; EP0023626B1

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