

Title (en)

REACTED PUR BINDING AGENTS FOR COIL COATING LACQUERS

Title (de)

ANREAGIERTE PUR-BINDEMittel FÜR COIL-COATING-LACKE

Title (fr)

LIANTS POLYURETHANE (PUR) N'AYANT PAS ENTIEREMENT REAGI, UTILISES POUR DES VERNIS DE COUCHAGE SUR BANDE

Publication

**EP 1456275 A1 20040915 (DE)**

Application

**EP 02805302 A 20021204**

Priority

- DE 10160570 A 20011210
- EP 0213717 W 20021204

Abstract (en)

[origin: DE10160570A1] A single component PUR binder containing (equivalents %): (A) cycloaliphatic polyisocyanate enamel (100); (B)(isocyanate group blocking agent (60-90); (C1) a polymeric OH component (80-95); and (C2) an OH-functional hydrazide compound, and optional other additives, where A+B+C1+C2 has no free but only blocked NCO groups and the equivalent ratio A:(C1+C2) = 1:1 to 1:1.1 is new An Independent claim is included for preparation of the binder by reaction of polyisocyanate (A) with blocking agent (B) at 70-100 deg C to the calculated NCO content, dilution with a solvent inert to NCO groups, quick addition of the total amount of OH component (C1+C2) at 60 deg C and stirring at 60 deg C until no NCO groups can be detected by IR spectroscopy.

IPC 1-7

**C08G 18/80**; **C09D 175/04**

IPC 8 full level

**B05D 7/24** (2006.01); **C08G 18/38** (2006.01); **C08G 18/65** (2006.01); **C08G 18/79** (2006.01); **C08G 18/80** (2006.01); **C09D 175/04** (2006.01); **H01B 3/30** (2006.01); **H01B 7/00** (2006.01); **H01B 7/02** (2006.01)

CPC (source: EP KR US)

**C08G 18/06** (2013.01 - KR); **C08G 18/3834** (2013.01 - EP US); **C08G 18/792** (2013.01 - EP US); **C08G 18/80** (2013.01 - KR); **C08G 18/807** (2013.01 - EP US); **C09D 175/04** (2013.01 - EP KR US); **C08G 2150/20** (2013.01 - EP US)

Citation (search report)

See references of WO 03054050A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**DE 10160570 A1 20030618**; AU 2002366725 A1 20030709; CA 2469639 A1 20030703; CN 1602324 A 20050330; EP 1456275 A1 20040915; JP 2005513218 A 20050512; KR 20040065239 A 20040721; US 2003139562 A1 20030724; WO 03054050 A1 20030703

DOCDB simple family (application)

**DE 10160570 A 20011210**; AU 2002366725 A 20021204; CA 2469639 A 20021204; CN 02824606 A 20021204; EP 0213717 W 20021204; EP 02805302 A 20021204; JP 2003554763 A 20021204; KR 20047008848 A 20021204; US 31318102 A 20021206