

Title (en)
POLYURETHANE COMPOSITION WITH HIGH EARLY STRENGTH

Title (de)
POLYURETHANZUSAMMENSETZUNG MIT HOHER FRÜHFESTIGKEIT

Title (fr)
COMPOSITION DE POLYURETHANNE A RESISTANCE INITIALE ELEVEE

Publication
EP 1751205 A1 20070214 (DE)

Application
EP 05742669 A 20050510

Priority

- EP 2005052096 W 20050510
- EP 04102004 A 20040510
- EP 05742669 A 20050510

Abstract (en)

[origin: EP1595902A1] Polyurethane composition (I) comprises at least a polyurethane polymer (A) with isocyanate group; at least a catalyst (B1) with at least a tertiary amine group; at least a tin catalyst (B2); soot; at least a dimethyl ester compound (C); polyurethane polymers (D) with isocyanate group; polyurethane polymers (E) with isocyanate group; polyurethane polymers (F) with isocyanate group; aliphatic polyisocyanate (G); and a pyrogene silicic acid. Polyurethane composition (I) comprises at least a polyurethane polymer (A) with isocyanate group, prepared from at least an aromatic polyisocyanate and at least a polyoxyalkylenepolyol (A1); at least a catalyst (B1) with at least a tertiary amine group; at least a tin catalyst (B2); soot (5-40 wt.%) related to the weight of (I); at least a dimethyl ester compound (C) of formula (R 2>-O-C(O)-R 1>-C(O)-O-R 2>); polyurethane polymers (D) (0-4 wt.%) with isocyanate group (prepared from at least a polyisocyanate and at least a polyester polyol, related to the weight of (I)); polyurethane polymers (E) (0-20 wt.%) with isocyanate group (prepared from at least a polyisocyanate and at least a polycarbonate polyol, related to the weight of (I)); polyurethane polymers (F) (0-15 wt.%) with isocyanate group (prepared from at least an aliphatic polyisocyanate and at least a polyoxy alkylene polyol (F1)); aliphatic polyisocyanate (G) (0-4 wt.%), related to the weight of (I); and a pyrogene silicic acid (0-4 wt. %). R 1>3-8C alkylene; and R 2>7-13C alkyl (optionally branched). An independent claim is also included for a method for pasting disks comprising applying (I) on the surface of first substrate, contacting (I) with the surface of second substrate and hardening of (I).

IPC 8 full level
C08G 18/12 (2006.01); **C08G 18/16** (2006.01); **C08G 18/76** (2006.01); **C09J 175/04** (2006.01); **C08K 5/10** (2006.01)

CPC (source: EP US)
C08G 18/12 (2013.01 - EP US); **C08G 18/165** (2013.01 - EP US); **C09J 175/04** (2013.01 - EP US); **C08K 5/10** (2013.01 - EP US); **C08L 2666/28** (2013.01 - EP US)

Citation (search report)
See references of WO 2005108456A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1595902 A1 20051116; BR 112012033473 A2 20161129; CA 2564992 A1 20051117; CN 1950415 A 20070418; CN 1950415 B 20100929; EP 1751205 A1 20070214; JP 2007536422 A 20071213; JP 5107030 B2 20121226; US 2008289761 A1 20081127; WO 2005108456 A1 20051117

DOCDB simple family (application)
EP 04102004 A 20040510; BR 112012033473 A 20050510; CA 2564992 A 20050510; CN 200580014891 A 20050510; EP 05742669 A 20050510; EP 2005052096 W 20050510; JP 2007512206 A 20050510; US 57999705 A 20050510