

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 December 2007 (06.12.2007)

PCT

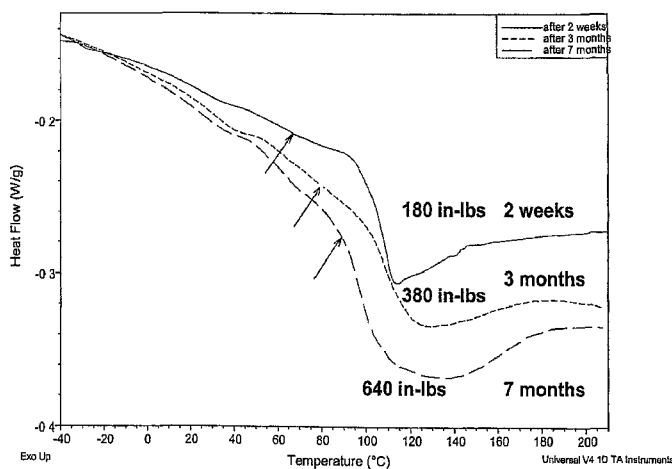
(10) International Publication Number
WO 2007/139586 A3

- (51) **International Patent Classification:**
C08G 18/12 (2006.01) C08G 18/30 (2006.01)
C08G 18/32 (2006.01) B32B 17/10 (2006.01)
- (21) **International Application Number:**
PCT/US2006/047755
- (22) **International Filing Date:**
14 December 2006 (14.12.2006)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
11/303,422 16 December 2005 (16.12.2005) US
11/303,670 16 December 2005 (16.12.2005) US
11/303,671 16 December 2005 (16.12.2005) US
11/303,892 16 December 2005 (16.12.2005) US
- (63) **Related by continuation (CON) or continuation-in-part (CIP) to earlier application:**
US 10/932,641 (CIP)
Filed on 1 September 2004 (01.09.2004)
- (71) **Applicant (for all designated States except US):** PPG INDUSTRIES OHIO, INC. [US/US]; 3800 West 143rd Street, Cleveland, OH 44111 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** RUKAVINA, Thomas, G. [US/US]; 125 Ridge View Drive, New Kensington, PA 15068 (US). HUNIA, Robert [US/US]; 481 Bunker Hill Road, Kittanning, PA 16201 (US).
- (74) **Agent:** SIMINERIO, Andrew, C ; PPG Industries, Inc., One PPG Place, Pittsburgh, PA 15272 (US).
- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, ZA, ZM, ZW
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) **Title:** POLY(UREAURETHANE)S, ARTICLES AND COATINGS PREPARED THEREFROM AND METHODS OF MAKING THE SAME

Room Temperature Aging Differential Scanning Calorimetry
of Cured Sample of Formulation 2



(57) **Abstract:** The present invention provides poly(ureaurethane)s including a reaction product of components including: (a) at least one isocyanate functional ureaurethane prepolymer including the reaction product of: (1) at least one isocyanate functional urethane prepolymer including the reaction product of: (i) a first amount of at least one polyisocyanate; and (ii) a first amount of at least one branched polyol; and (2) water, to form an isocyanate functional ureaurethane prepolymer; and (b) a second amount of at least one polyisocyanate and a second amount of at least one branched polyol; compositions, coatings and articles made therefrom and methods of making the same.

WO 2007/139586 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
13 March 2008

(48) Date of publication of this corrected version:
16 October 2008

Published:

— *with international search report*

(15) Information about Correction:
see Notice of 16 October 2008