



(51) International Patent Classification:

C08G 18/10 (2006.01) *C08G 18/71* (2006.01)
C08G 18/32 (2006.01) *C09D 175/02* (2006.01)
C08G 18/38 (2006.01)

(21) International Application Number:

PCT/US2012/044971

(22) International Filing Date:

29 June 2012 (29.06.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/503,779 1 July 2011 (01.07.2011) US
13/537,190 29 June 2012 (29.06.2012) US

(71) Applicant (*for all designated States except US*): **PPG INDUSTRIES OHIO, INC.** [US/US]; 3800 West 143rd Street, Cleveland, Ohio 44111 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SHETH, Kamlesh J.** [US/US]; 730 Pimlico Place, Suwanee, Georgia 30024 (US). **McCARTHY, James E.** [US/US]; 11895 Highland Colony Drive, Roswell, Georgia 30075 (US).

(74) Agents: **PALLADINO, Donald R.** et al.; PPG Industries, Inc., One PPG Place, 39th Floor, Pittsburgh, PA 15272 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: POLYUREA COATINGS CONTAINING SILANE

(57) Abstract: The present invention is directed to a polyurea coating composition formed from an amine-functional component and an isocyanate-functional component. The amine-functional component can include an aspartic ester-based amine-functional resin and a blocked primary amine. The isocyanate-functional component can include a polyisocyanate having a functionality greater than 2.0 and an isocyanate equivalent weight of greater than 300, and a silane.

