



(43) International Publication Date
24 December 2014 (24.12.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/202495 A1

(51) International Patent Classification:

C09D 183/04 (2006.01) **C09D 5/03** (2006.01)
B05D 1/06 (2006.01) **C08K 3/22** (2006.01)

(21) International Application Number:

PCT/EP2014/062494

(22) International Filing Date:

16 June 2014 (16.06.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2013/077474 19 June 2013 (19.06.2013) CN
13185504.1 23 September 2013 (23.09.2013) EP

(71) Applicant: **AKZO NOBEL COATINGS INTERNATIONAL B.V.** [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL).

(72) Inventors: **KIM, Suje**; No. 281 of Wuxiang middle Road, Wuxiang Town, Yinzhou District, Ningbo, Zhejiang 315111 (CN). **TONG, Jian**; No. 281 of Wuxiang middle Road, Wuxiang Town, Yinzhou District, Ningbo, Zhejiang 315111 (CN).

(74) Agent: **AKZO NOBEL IP DEPARTMENT**; Association No. 485, Velperweg 76, NL-6824 BM Arnhem (NL).

(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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: A COMPOSITION OF HIGH TEMPERATURE RESISTENT POWDER COATING, A PREPARATION METHOD THEREFORE, AND USE THEREOF

(57) Abstract: The present invention provides for a composition of high temperature resistant powder coating which comprises at least two silicone resins having different glass transition temperatures and/or different melt viscosities, a bi-functional resin, a mica-containing filler and optional additives. When applied to a substrate, the composition is capable of curing to form a high temperature resistant coating on the substrate surface. The present invention also provides for use of the composition of the present invention to coat a substrate, as well as substrates coated with the composition of the present invention.



WO 2014/202495 A1