(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 June 2010 (10.06.2010)

PCT

(10) International Publication Number
WO 2010/063777 A1

(51) **International Patent Classification**:
C04B 22/14 (2006.01) ***C04B 24/12*** (2006.01)
C04B 22/06 (2006.01)

(21) **International Application Number**:
PCT/EP2009/066275

(22) **International Filing Date**:
3 December 2009 (03.12.2009)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
08170692.1 4 December 2008 (04.12.2008) EP

(71) **Applicant** *(for all designated States except US)*: **CONSTRUCTION RESEARCH & TECHNOLOGY GMBH** [DE/DE]; Dr.-Albert-Frank-Str. 32, 83308 Trostberg (DE).

(72) **Inventors; and**
(75) **Inventors/Applicants** *(for US only)*: **KOLOMIETS, Elena** [RU/CH]; Segnesstraße 9, CH-8048 Zürich (CH). **ALFONSO, Montserrat** [ES/CH]; Oberhausenstraße 79, CH-8907 Wettswil am Albis (CH). **WEIBEL, Martin** [CH/CH]; Meientalstraße 67, CH-8048 Zürich (CH).

(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, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, 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))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

WO 2010/063777 A1

(54) **Title**: ACCELERATOR MIXTURE AND METHOD OF USE

(57) **Abstract**: The invention concerns an alkali -free and HF-free accelerator mixture which contains aluminium in oxidation state 3, sulphate and hexaf luorosilicic acid, a process for the preparation of said accelerators and the use of said accelerators for the coating of substrates with concrete or mortar. Furthermore the invention relates to concrete or mortar containing accelerators according to the invention and the hardened layers produced by applying the accelerators to concrete or mortar. The invention relates also to the use of hexaf luorosilicic acid as a stabilizer.