



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C04B 38/02, 38/10, 24/00 // 103:30	A1	(11) International Publication Number: WO 00/61519 (43) International Publication Date: 19 October 2000 (19.10.00)
(21) International Application Number: PCT/AU00/00301 (22) International Filing Date: 10 April 2000 (10.04.00) (30) Priority Data: PP 9700 9 April 1999 (09.04.99) AU (71) Applicant (for all designated States except US): JAMES HARDIE RESEARCH PTY LIMITED [AU/AU]; 2nd floor, 1 Grand Avenue, Camellia, NSW 2142 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): NAJI, Basil, Taha [AU/AU]; 4/11-15 King Street, Parramatta, NSW 2150 (AU). HINCZAK, Ihor [AU/AU]; 103 Anderson Avenue, Mt Pritchard, NSW 2170 (AU). IOWA, Valentin [AU/AU]; 114 Eric Street, Bundeena, NSW 2230 (AU). STITT, David, Malcolm [AU/AU]; 14 Greville Street, Chatswood, NSW 2067 (AU). (74) Agent: BALDWIN SHELSTON WATERS; 60 Margaret Street, Sydney, NSW 2000 (AU).		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: CONCRETE FORMULATION (57) Abstract An additive for use in the preparation of lightweight concrete, said additive including a blend of from around 40 % to 99 % of organic polymeric material and from 1 % to around 60 % of an air entraining agent. The additive is particularly suitable for the preparation of lightweight concrete which uses polystyrene aggregate. It provides for excellent dispersion of the polystyrene aggregate and improved bond between the polystyrene aggregate and surrounding cementitious binder. The resultant lightweight concrete formulation may be pumped and is particularly suitable for sandwich wall construction.		