

Supplementary data

Study on the Effect of Residual Polymer Superplasticizer on the Properties of Graphene–Cement Composites

Ki Yun Kim, Seok Hwan An and Jea Uk Lee *

Department of Advanced Materials Engineering for Information and Electronics, Integrated Education Institute for Frontier Science and Technology (BK21 Four), Kyung Hee University, 1732 Deogyong-daero, Giheung-gu, Yongin-si 17104, Gyeonggi-do, Republic of Korea; 12rldbs@khu.ac.kr (K.Y.K.); ansh0703@khu.ac.kr (S.H.A.)

* Correspondence: leeu@khu.ac.kr; Tel.: +82-31-201-3655

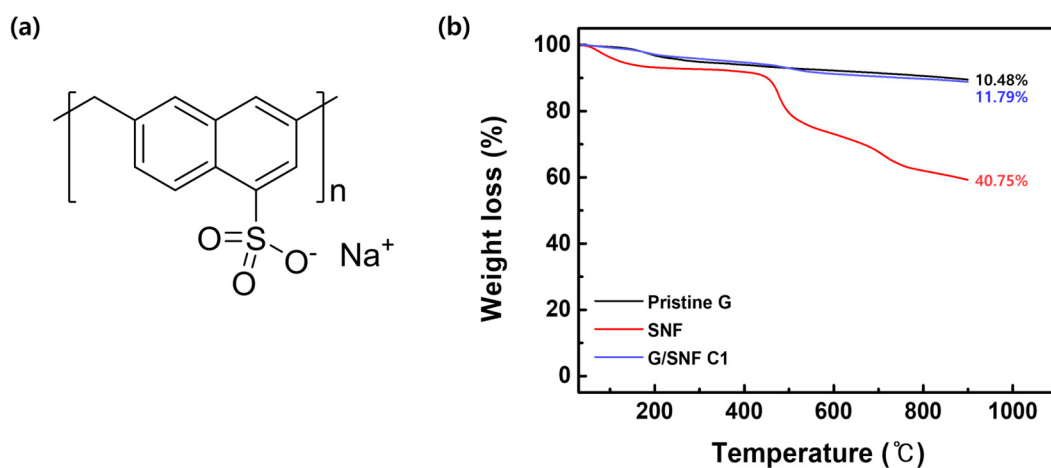


Figure S1. (a) Chemical structure of SNF. (b) TGA graphs of pristine graphene, pure SNF, and G/SNF C1.

Citation: Kim, K.Y.; An, S.H.; Lee, J.U. Study on the Effect of Residual Polymer Superplasticizer on the Properties of Graphene–Cement Composites. *Polymers* **2024**, *16*, 956. <https://doi.org/10.3390/polym16070956>

Academic Editors: Quantao Liu, Wei Du, Yongbin Yan and Xiaobin Han

Received: 11 March 2024
Revised: 28 March 2024
Accepted: 29 March 2024
Published: 31 March 2024



Copyright: © 2024 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

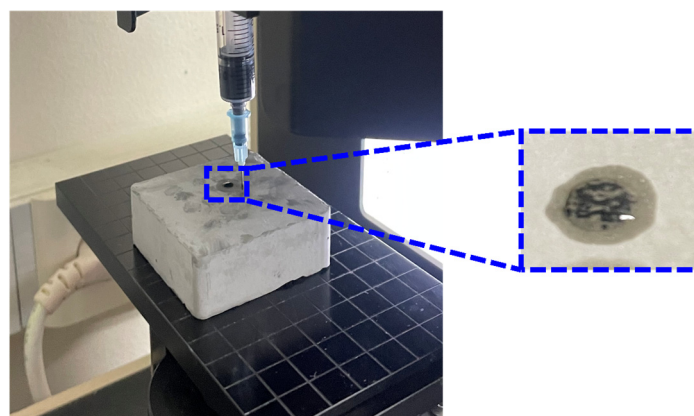


Figure S2. Photo image of contact angle measurement of pristine graphene aqueous dispersion with cement plate.

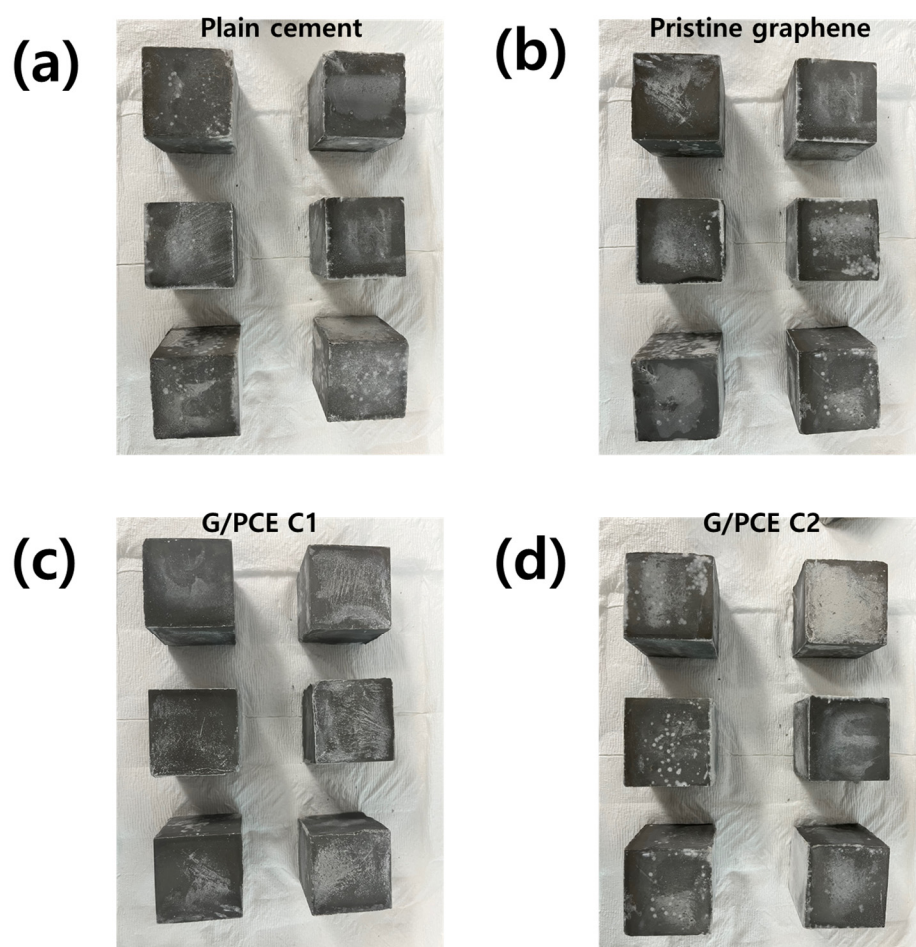


Figure S3. Photographs of (a) plain cement and GCC samples made from (b) pristine graphene, (c) G/PCE C1, and (d) G/PCE C2 dispersions.