Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2014

## **Supporting Information**

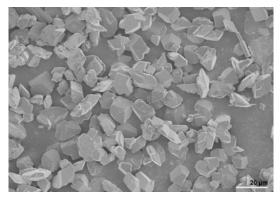


Figure S1. SEM images of  $\alpha$ -CSH powder synthesized by solution phase transformation process.

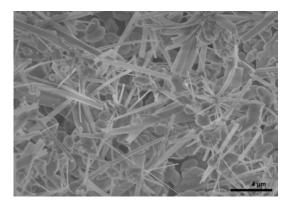


Figure S2. SEM image showing the surface morphology of the pure gypsum cement.

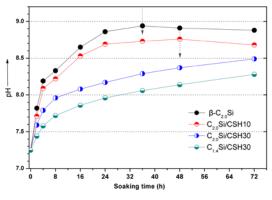


Figure S3. Changes in pH value in the SBF during soaking the cement-filled teeth.

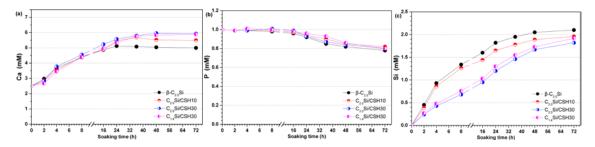


Figure S4. Changes in ion concentration in the SBF medium during soaking the cement-filled teeth.

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Sample	Initial	Final
	(I)	(F)
$\beta$ -C <sub>2.0</sub> Si	38	65
C <sub>2.0</sub> Si/CSH10	36	57
C2.0Si/CSH20	30	44
C <sub>2.0</sub> Si/CSH30	22	26

 Table S1. Effect of CSH on the setting time of paste.