## Waterproof Aerated Bricks from Stone Powder Waste through Nano-TiO<sub>2</sub> Structured Hydrophobic Surface Modification

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## **Supplementary Materials**

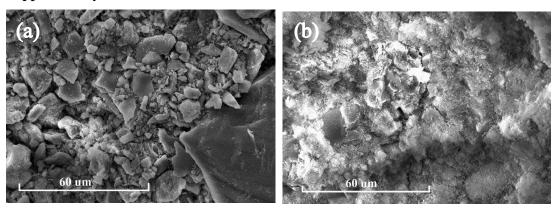


Figure S1. Images of EDS detected area of (a) the stone powder and (b) aerated brick.

**Table S1.** Elemental composition of the sample in Figure S1 (a).

Element	Weight%	Atomic%
О	48.07	63.34
Na	1.71	1.57
Al	5.31	4.15
Si	33.27	24.97
K	2.69	1.45
Ca	7.70	4.05
Fe	1.26	0.47
Totals	100.00	

Note: Carbon (C) was removed in this table because of the interference from the Carbon paste.

**Table S2.** Elemental composition of the sample in Figure S1 (b).

Element	Weight%	Atomic%
О	47.48	63.62
Na	1.79	1.67
Al	5.18	4.11
Si	27.17	20.74
K	2.45	1.34
Ca	15.94	8.52
Totals	100.00	

Note: Carbon (C) was removed in this table because of the interference from the Carbon paste.

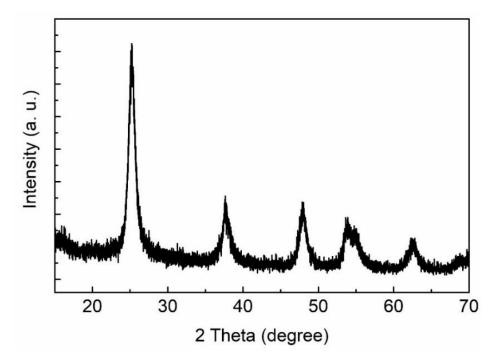


Figure S2. XRD pattern of TiO2 nanoparticles.

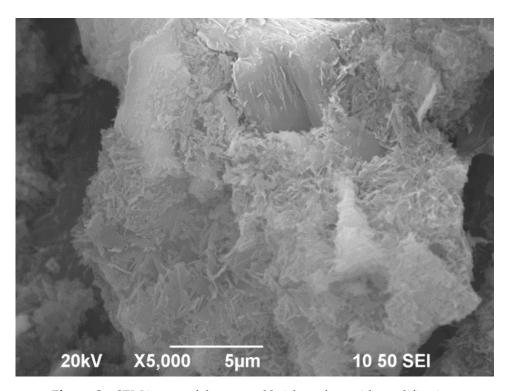


Figure S3. SEM image of the aerated brick surface with modification.