

**Supplementary Materials for**  
**A Novel Cementitious Microfiltration Membrane: Mechanisms**  
**of Pore Formation and Properties for Water Permeation**

*Zhe Wang, Zhonglin Chen, Jing Chang, Jimin Shen\*, Jing Kang, Lei Yang, Qian Chen*

*(State Key Laboratory of Urban Water Resource and Environment, School of Municipal &  
Environmental Engineering, Harbin Institute of Technology, Harbin 150090, China)*

*Corresponding author e-mail: shenjimin@hit.edu.cn; Tel: +86-451-86287000; fax: +86-451-  
86283028.*

Fig. S1 Pore size distribution of three cementitious membranes (A, B, C) fabricated under the same condition (using the quartz-to-cement ratio of 4.0) to test the accuracy and stability of the Pore Size Distribution Analyzer (PSDA).

Table S1 Chemical composition of the cement used in this research.

Cement	CaO (wt%)	SiO <sub>2</sub> (wt%)	Al <sub>2</sub> O <sub>3</sub> (wt%)	Fe <sub>2</sub> O <sub>3</sub> (wt%)	SO <sub>3</sub> (wt%)	Mg (wt%)
PO 425	53.7	24.1	7.9	4.0	3.9	1.3