

# One-step approach to durable and highly hydrophobic coating for flax fabrics for self-cleaning application.

Antoine Ishak, Rodolphe Sonnier, Belkacem Otazaghine \* and Claire Longuet

PCH, IMT-Mines Alès, 6, Avenue de Clavières, 30100 Alès, France; antoine.ishak@mines-ales.fr (A.I.); rodolphe.sonnier@mines-ales.fr (R.S.); claire.longuet@mines-ales.fr (C.L.)

\* Correspondence: belkacem.otazaghine@mines-ales.fr

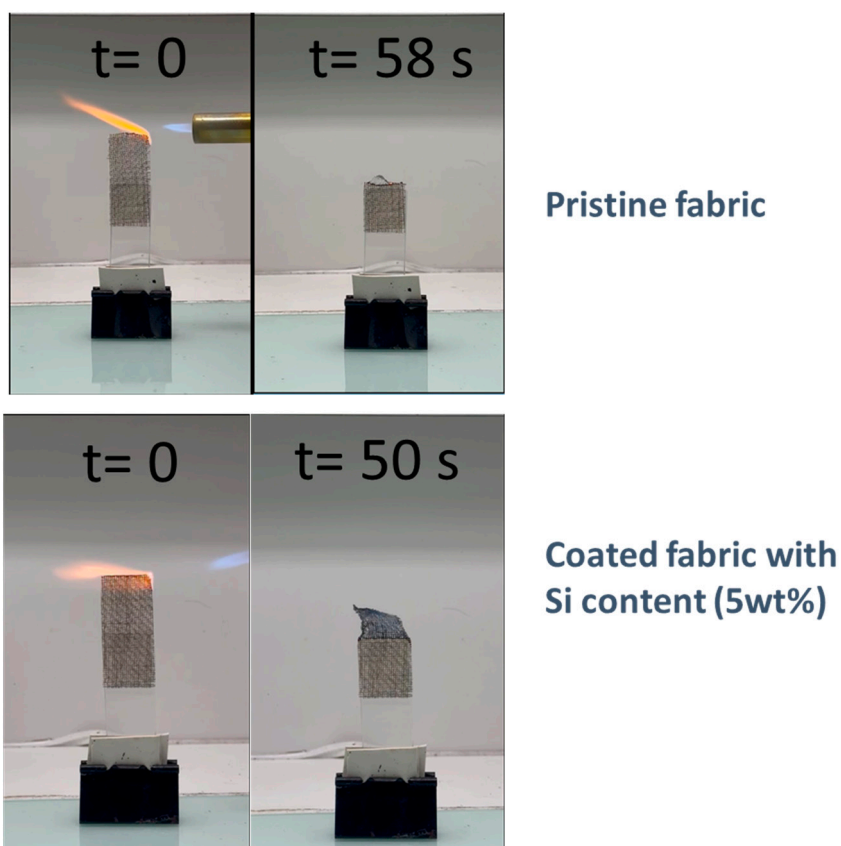


Figure S1: Fire test for pristine fabric and coated fabric with Si content (5 wt%).

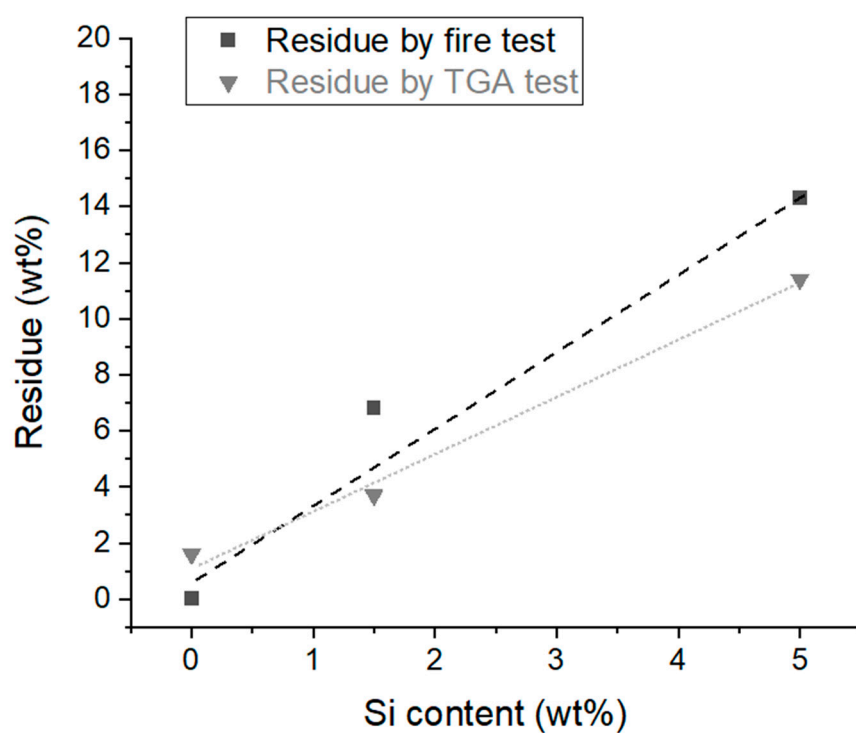


Figure S2: The residue obtained by fire test and TGA test as a function of the Si content.

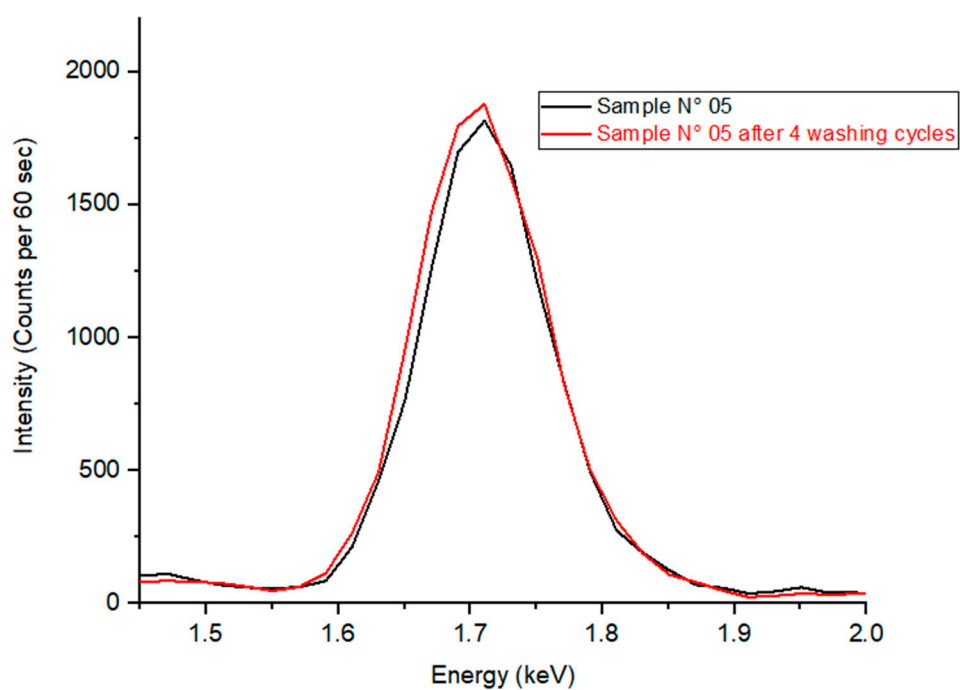


Figure S3: X-ray fluorescence intensity of Si element for the coated sample (N° 05) before and after 4 washing cycles.

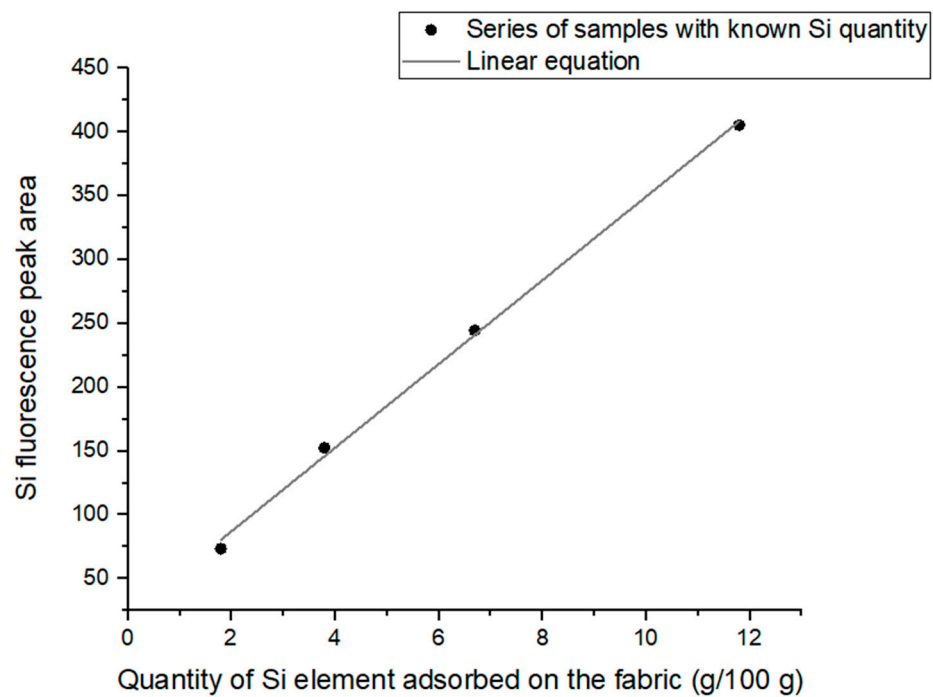


Figure S4: X-ray fluorescence peak area as function of silicon content of the known flax fabric samples with the drawn linear equation.