Electronic Supplementary Information

Development of Sol-gel processed Semi-transparent and Self-cleaning Superhydrophobic Coatings

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Fig. S2 Surface roughness of the coatings prepared from different vol. % of PMMA in silica.

Fig. S3 FTIR spectra of MTMS, PMMA and MTMS-PMMA composite.

Fig. S4 EDX spectra of the coating prepared from 2 vo. % of PMMA in silica.

Fig. S5 SEM images of the coatings from two different regions after water jet impact test.

Fig. S6 Scratch resistance of the coatings prepared from different vol. % of PMMA in silica.
Figure S1: Surface roughness (R) of the coatings prepared from 2 vol. % of PMMA in silica at deposition time of (a) 1 min (R~ 166 nm), (b) 15 min (R~ 201 nm), (c) 30 min (R~ 376 nm), and (d) 45 min (R~ 185 nm).
Figure S2: Surface roughness (R) of the coatings prepared at 30 minutes of deposition time from (a) 0 vol. % (R~ 318 nm), (b) 2 vol. % (R~ 376 nm), (c) 4 vol. % (R~ 345 nm), and (d) 6 vol. % (R~ 310nm) of PMMA in silica.
Figure S3: FTIR spectra of MTMS, PMMA and MTMS-PMMA composite.
Figure S4: EDX spectra of the coating prepared from 2 vo. % of PMMA in silica.
Figure S5: SEM images of the coatings from two different regions after water jet impact test, which showed no substantial change in surface morphology.
Figure S6: Scratch resistance of the coatings prepared at 30 minutes of deposition time from (a) 0 vol. % (F ~ 1.1 mN), (b) 2 vol. % (F ~ 2.8 mN), (c) 4 vol. % (F ~ 1.9 mN), and (d) 6 vol. % (F ~ 1.6 mN) of PMMA in silica.