

Supporting Information

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Bacteriophobic Zwitterionic/Dopamine Coatings for Medical Elastomers

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Movie S1: Biofilm mucus adhesion.

Movie S2: Surface functionalization of urinary catheters.

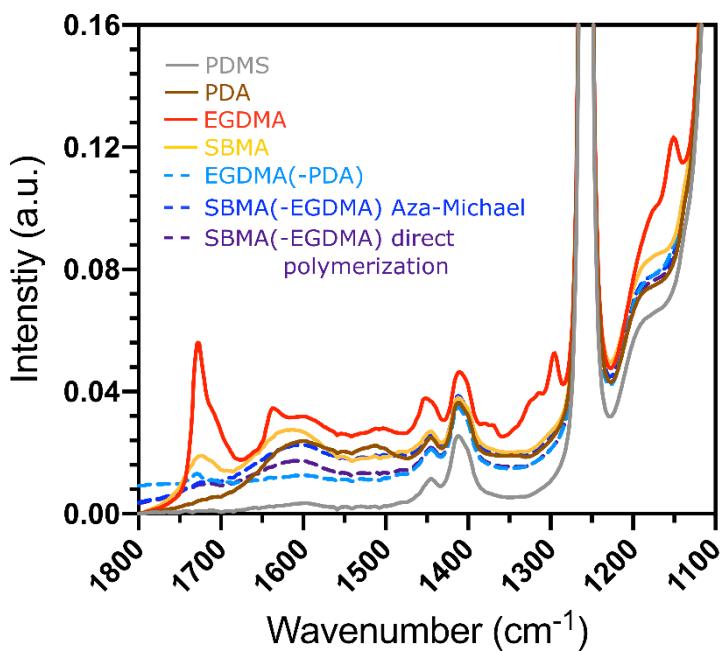


Figure S1. FTIR spectra of the multilayer structure at each step of layer deposition, including controls.

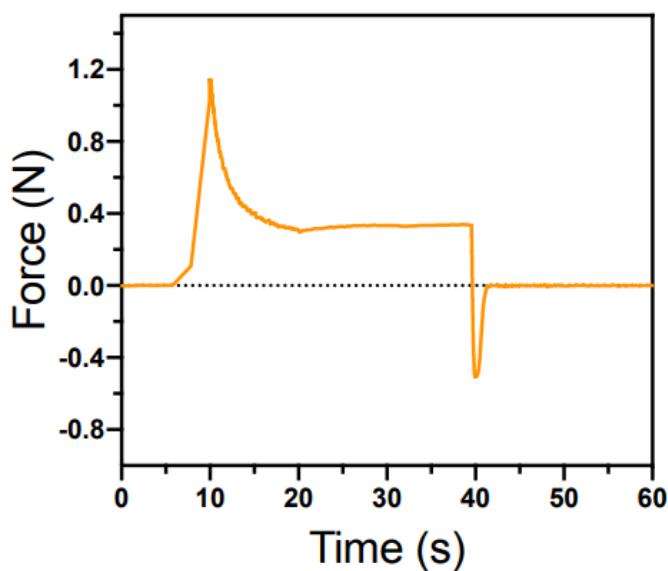


Figure S2. Loading and unloading profiles in mechanical stability tests.

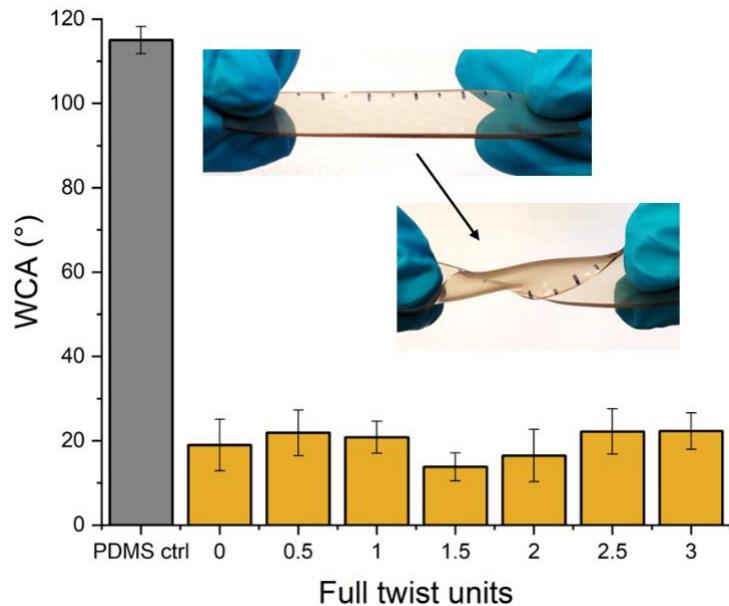


Figure S3. WCA of ZW-coated PDMS under torque stress.

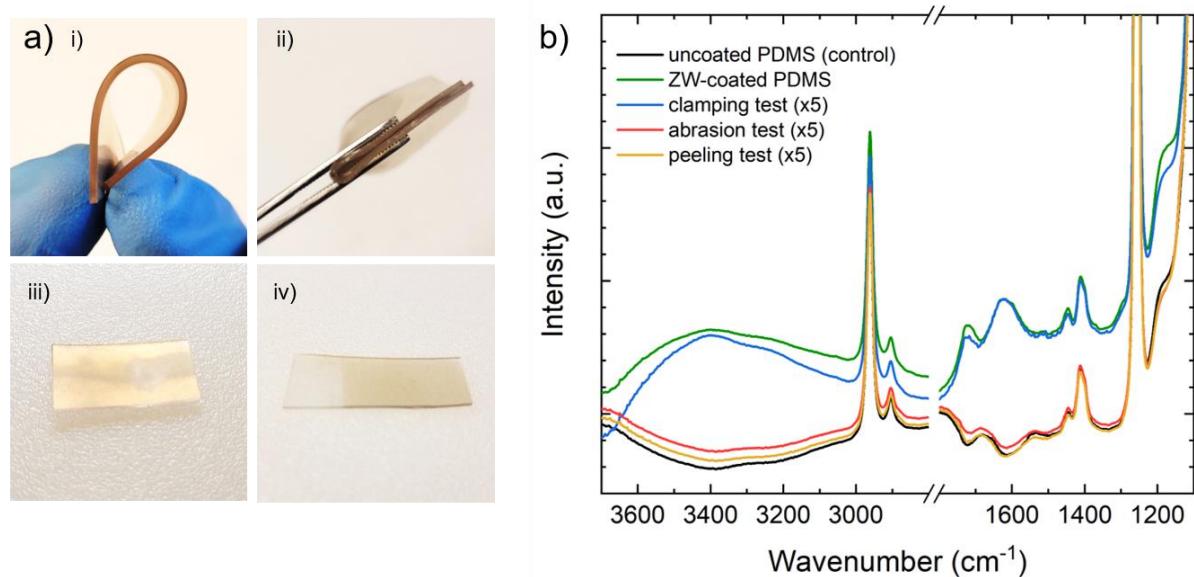


Figure S4. Mechanical stability of the zwitterionic coatings under clamping, abrasion, and peeling stress. **a)** Different types of mechanical stress applied to ZW-coated PDMS strips, showing: i) bending, ii) clamping, iii) abrasion, and iv) peeling. **b)** TIR spectra of PDMS, ZW-coated PDMS, and ZW-coated PDMS after clamping, abrasion, and peeling damage.