Supporting Information

Self-Healing Poly(siloxane-urethane) Elastomers with Remoldability,

Shape Memory and Biocompatibility

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Figure S1. The 1 H NMR spectra of the compound 1 (A), 2 (B), 3 (C), and 4 (D).



Figure S2. FTIR spectra of the aminopropyl terminated polydimethylsioxane and compound 7.



Figure S3. The phase separation phenomenon of the monomers in 1,4-dioxane when the polymer was prepared through the conventional one-step process.



Figure S4. The stress-strain curves of the remolded PDMS-DA-PU, and PDMS/PCL-DA-PU-10% samples.



Figure S5. TGA thermograms of PDMS-PU, PDMS-DA-PU and PDMS/PCL-DA-PU-10%



Figure S6. Temperature-dependent storage modulus of PDMS-DA-PU, PDMS/PCL-DA-PU-10%, and PDMS/PCL-DA-PU-20%.



Figure S7. Shape recovery of the sample PDMS/PCL-DA-PU-20%: (A) Permanent shape (30 mm × 5 mm × 1 mm). (B) Temporary shape after deforming and fixing. (C) Permanent shape after recovering.