

Figure S1. Corona treatment of Ultraclear™ PU results in a temporary gain of hydrophilicity and eventual hydrophobic recovery. Water contact angles were measured at 10 randomly chosen spots on each sample. Data represent means. Error bars are standard deviations. *** represents $p < .001$ for a paired t-test before and after corona treatment.

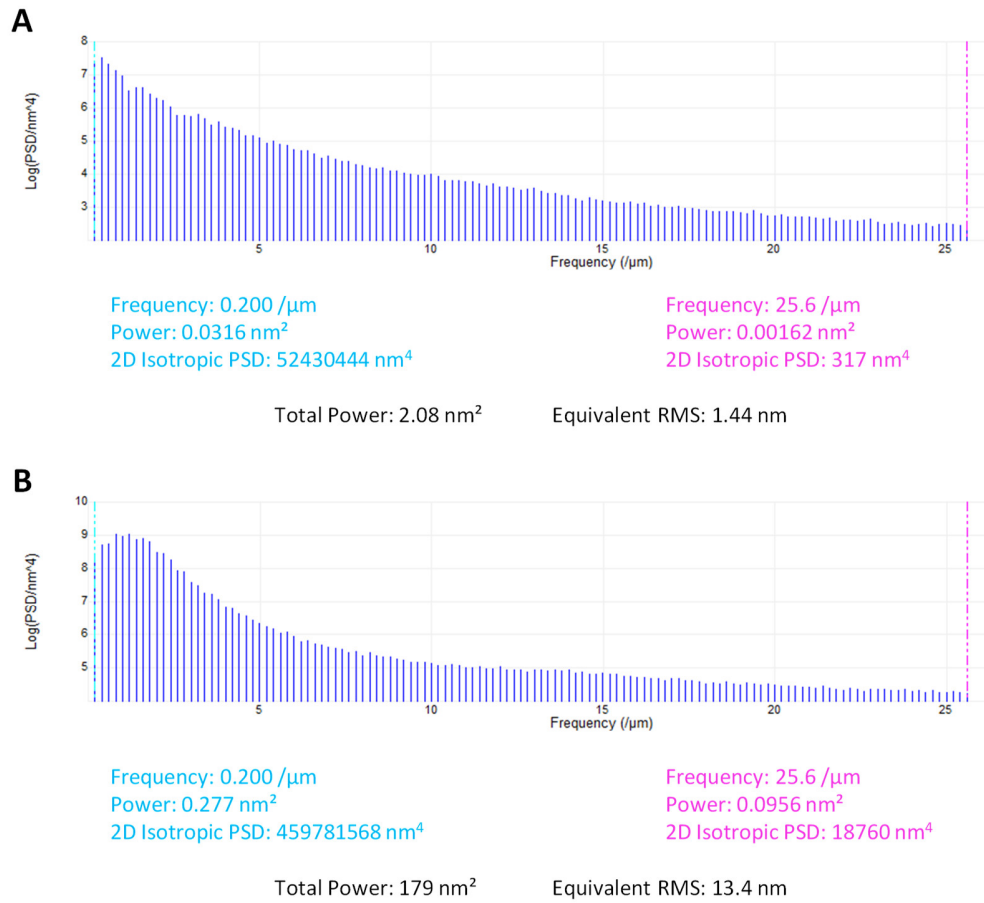


Figure S2. Power spectral density analysis for representative AFM images of Ultraclear™ PU with and without NanoAccel™ treatment in ANAB mode. NanoScope Analysis 1.8 was used to generate 2D isotropic power spectral density plots for the AFM images in Fig. 4B and 4C. Light blue and pink markers represent each end of the frequency axis. A) Untreated PU. B) ANAB-treated PU. Treated sample had a pattern of roughness with equivalent RMS one order higher than the untreated sample.

Table S1. Parameters used to estimate surface energy by the Owens-Wendt method.

Testing Liquid	Surface Energy Parameter (mN/m)		
	Polar	Dispersive	Total
Water	51	21.8	72.8
Formamide	19.0	39.0	58.0
Diiodomethane	2.3	48.5	50.8

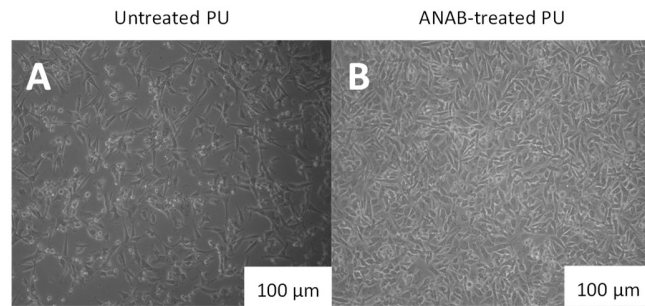


Figure S3. Improved cell adhesion of ANAB-treated PU persists even after passaging cells. A) MDA-MB-231 cells on untreated PU. Scale bar: 100 µm. B) MDA-MB-231 cells on ANAB-treated PU. Scale bar: 100 µm. Treatment led to a sustained improvement in cell adhesion properties of Ultraclear™ PU.