Supplementary Information to

Surface Aging Investigation by Means of AFM-Based Methodology and the Evolution of

Conservative Nanoscale Interactions

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Figure S1. a) Amplitude $A_1$ for the bimodal SASS (Small Amplitude and Small Set-point) is chosen in the range of the values predicted by the amplitude distance curve as shown by the arrow. The cantilever is vibrated with the 1$^{\text{st}}$ and 2$^{\text{nd}}$ mode frequency of oscillation. b) SASS images consisted of $\phi_1$ (phase of mode 1), $\phi_2$ (phase of mode 1) $A_1$ (amplitude of mode 1) and $A_2$ (amplitude of mode 2) after 3h and 24h of exposure to a controlled environment (Temperature at 23±2°C and relative humidity (RH) ~55±5%). High homogeneity and minimal differences between the 3h and 24h time can be observed.
Figure S2. Additional force of adhesion map form a SASS bimodal experiment for three different samples including polypropylene, TiO$_2$, and DNA on mica substrate.