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**Natural hydrous amorphous silica: quantitation of network speciation and hydroxyl content by  $^{29}\text{Si}$  MAS NMR and vibrational spectroscopy**

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Supplemental Material

**Supplemental Figure 1.** Imagery of PU-009. a) Hand sample, illustrating bluish-white coating on basaltic surface. b) SEM backscatter electron image of the PU-009 coating in thick section. The bright region at the bottom of the image corresponds to the basalt substrate, capped by a  $\sim 40$   $\mu\text{m}$  silica coating (gray). c) Field photo of coated volcanic bombs strewn across the landscape near the rim of the Pu'u O'o cone.

