Erratum: Ultraslow Settling Kinetics of Frictional Cohesive Powders [Phys. Rev. Lett. 130, 166102 (2023)]

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We recently discovered two errors in the discrete element method simulations reported in this Letter:

1. Because we used LAMMPS' [1] "fix npt" command (rather than "fix npt/sphere,") all particle rotations were frozen.

2. The sliding-, rolling-, and twisting-frictional forces were proportional to the *total* elastic intergrain force, not to its repulsive component as was stated in the Supplemental Material [2].

These errors did not affect any results for the frictionless models (1 and 3). For the frictional models (2 and 4), correcting error No. 2 produces an additional, roughly logarithmic increase in $\phi(t)$ at long times $t \gtrsim \tau_{\mathrm{ramp}}$, making an unambiguous definition of ϕ_{settled} more challenging. Using the definition employed in our study [$\phi_{\mathrm{settled}} = \phi(\tau_{\mathrm{ramp}} + 10^5)$], errors No. 1 and No. 2, respectively, tended to decrease and increase $\phi_{\mathrm{settled}}(\tau_{\mathrm{ramp}})$. The overall effect was to increase $\phi_{\mathrm{settled}}(\tau_{\mathrm{ramp}})$ above the values obtained from correctly executed simulations. Since the lower $\phi_{\mathrm{settled}}(\tau_{\mathrm{ramp}})$ in the correctly executed simulations produced structural void percolation for model 4, the *number* of structural voids in this model's final settled states no longer increases rapidly with increasing τ_{ramp}.

Otherwise these errors did not qualitatively alter any of the main trends reported in, or conclusions of, this Letter.

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[1] A. P. Thompson *et al.*, Lammps-a flexible simulation tool for particle-based materials modeling at the atomic, meso, and continuum scales, Comput. Phys. Commun. **271**, 108171 (2022).

[2] Kai Nan and R. S. Hoy, Phys. Rev. Lett. **130**, 166102 (2023), See Supplemental Material at https://doi.org/10.1103/PhysRevLett.130.166102.

