Supplementary Information:

Nonspherical armoured bubbles vibration

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I. SUPPLEMENTARY MOVIES

Movie S1

FIG. 1: **Movie S1**: Movie showing the dynamics of a cylindrical armoured bubbles of length $L_c \approx 8.5$ mm and radius $R_c \approx 0.5$ mm excited with a vibration exciter at frequency $f_c = 3000$ Hz and an amplitude of vibration increasing every 2 minutes from 0.1 $\mu$m to 1.75 $\mu$m. The movie was shot with a high resolution Hamamatsu C9300 High resolution at 5 frames per second. Times is accelerated by a factor of 6. a. Initial state. b. Final state.
Movie S2

FIG. 2: **Movie S2**: Movie showing the dynamics of a cylindrical armoured bubbles of length $L_c \approx 8.5$ mm and radius $R_c \approx 0.5$ mm excited with a vibration exciter at a frequency $f_e = 2500$ Hz and an amplitude $A = 1.6 \mu m$ shot at 250 frames per second with a Photron SA3 high speed camera. Time is slowed down by a factor of 8. a. Initial state. b. Picture showing the particles dissemination once the bubble has reached a spherical shape.

Movie S3

FIG. 3: **Movie S3**: Movie showing the dynamics of a spherical armoured bubbles of radius $\approx 1.25$ mm excited with a vibration exciter at frequency $f_e = 1300$ Hz and amplitude, shot at 50 frames per second with a Photron SA3 high speed camera. Time is slowed down by a factor of 7. a. Initial state. b. Particles dissemination from the surface of the bubble.