SUPPLEMENTARY DATA FOR:

Fabrication of dual anti-corrosive polyaniline microcapsules via Pickering emulsion for active corrosion protection of steel

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Figure S1. (a) 1H NMR spectrum of PASt copolymer. (b) FTIR spectra and (c) TGA curves of PASt copolymer, pure PANI and PANI particles.
**Figure S2.** TEM images and digital photos of PAST micelle (a), PANI particles (b). Size distribution of PAST micelle and PANI particles (c).

**Figure S3.** FTIR spectra (a) and TGA curves (b) of PANI particles.

**Figure S4.** OM images of Pickering emulsion obtained with different PANI particles as Pickering emulsifiers. (a) PANI$_{1.5}$, (b) PANI$_2$, (c) PANI$_3$, (d) the average droplet diameter of different PANI particles.
**Figure S5.** OM images of Pickering emulsion obtained with different oil-water ratios. (a) 1.5:1; (b) 1:1; (c) 1:2; (d) 1:3. (the concentration of the PANI emulsifier was 15 mg/mL)

**Figure S6.** EDS spectrum and corresponding element distribution map of PANI microcapsules.