

Supporting Information to:

Construction of durable superhydrophobic and anti-icing coating via incorporating boroxine cross-linked silicone elastomers with good self-healability

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Fig. S1 (a) BFVSE immersed in water for 24 hours; (b) BFVSE swelled in THF; (c) BFVSE dissolved in THF+H₂O.

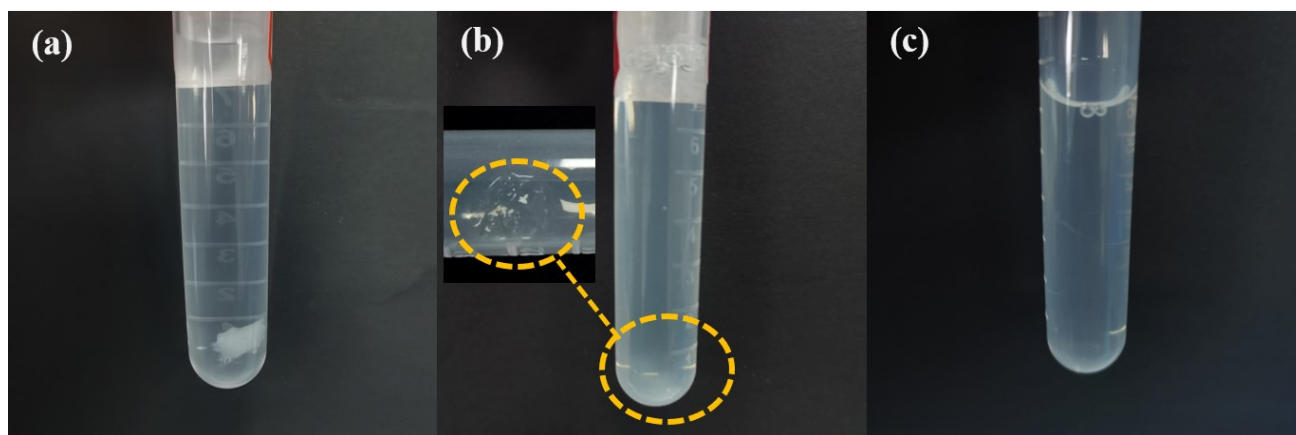


Fig. S2 TGA curves of VS, BVSE and BFVSE, in which VS was obtained by conventional covalent cross-linking.

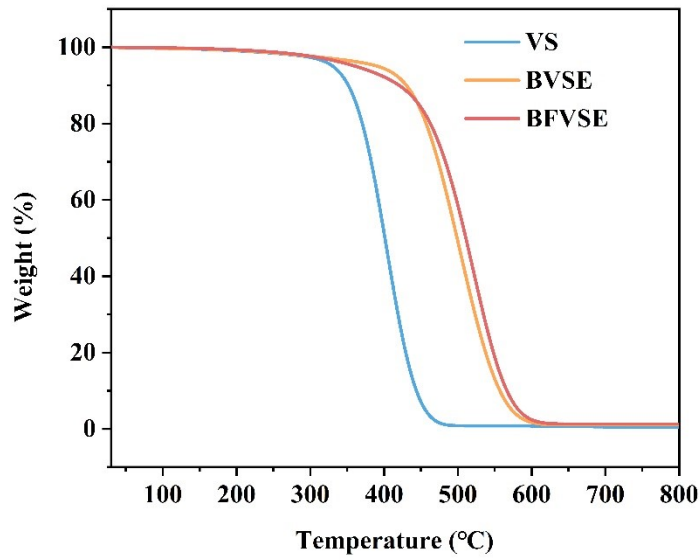


Fig. S3 Rheological behavior curves at 25 °C. (a) Strain sweep curves, variation of (b) G' and (c) G'' with angular frequency of VS, BVSE, BFVSE for different TVB/monomer ratios.

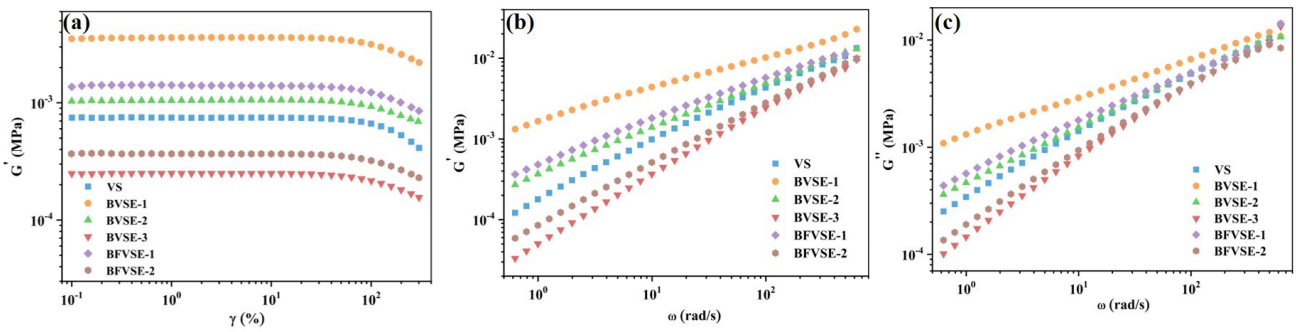


Table S1 Effects of different SiO_2 and BFVSE contents on anti-icing properties of coatings.

Samples	Delayed freezing	Ice adhesion strength	CA (°)
	time (s)	(kPa)	
EP/ SiO_2 -1/BFVSE-1	1620	75	158
EP/ SiO_2 -2/BFVSE-1	2527	73	158
EP/ SiO_2 -3/BFVSE-1	2671	77	159
EP/ SiO_2 -2/BFVSE-2	1116	64	130
EP/ SiO_2 -2/BFVSE-3	874	53	114