What is claimed is:

1. A hot-melt pressure-sensitive adhesive composition, consisting of:

a styrenic block copolymer having a diblock content between 5% and 40% by weight of the styrenic block copolymer;

between 25% and 75% by weight of an aliphatic tackifier that associates with a mid-block of the styrenic block copolymer;

an oil-based plasticizer;

an aromatic tackifier that associates with an end-block of the styrenic block copolymer and induces phase separation in the adhesive composition; and

optionally, at least one additive selected from the group consisting of a light absorber, a light stabilizer, an antioxidant, a filler, a plasticizer, and a rheological additive,

wherein a phase-separated morphology of the hot-melt pressure-sensitive adhesive composition comprises at least two distinct domains,

wherein the hot-melt pressure-sensitive adhesive composition has an operable temperature window between 5 °F and 140 °F, and wherein the aliphatic tackifier has a softening point of 10-120 °C and the aromatic tackifier has a softening point of 50-250 °C.

2. The adhesive composition of claim 1, wherein the aromatic tackifier is a C9 tackifier.

3. The adhesive composition of claim 1, wherein the aromatic tackifier is an alpha methyl styrene tackifier.

4. The adhesive composition of claim 1, wherein the aliphatic tackifier is a C5 tackifier.

5. The adhesive composition of claim 1, wherein the aliphatic tackifier is substantially devoid of aromatic modifications.

6. The adhesive composition of claim 1, wherein the styrenic block copolymer is a styrene-isoprene-styrene block copolymer.

7. The adhesive composition of claim 6, wherein the styrene-isoprene-styrene block copolymer has a melt flow index of 8-28, a styrene content of 10-30%, and a diblock percentage at or below 38% by weight of the styrene-isoprene-styrene block copolymer.

8. The adhesive composition of claim 1, wherein the diblock content of the styrenic block copolymer is between 15% and 38% by weight of the styrenic block copolymer.

9. The adhesive composition of claim 1, wherein the operable temperature window is 15-120 °F.

10. The adhesive composition of claim 1, wherein the oil-based plasticizer is an aliphatic plasticizer chosen from paraffinic oils, naphthenic oils, mineral oils, and a combination thereof.

11. The adhesive composition of claim 1, wherein

the styrenic block copolymer is 10-50% by weight of the composition;

the aromatic tackifier is between 1% and 15% by weight of the composition,

the aliphatic tackifier is between 35% and 55% by weight of the composition, and

the oil-based plasticizer is between 15% and 25% by weight of the composition.

12. The adhesive composition of claim 1, wherein the aromatic tackifier has a softening point that is higher than a softening point of the aliphatic tackifier.

13. The adhesive composition of claim 12, wherein the aliphatic tackifier has a softening point of 10-120 ℃ and the aromatic tackifier has a softening point of 50-250 ℃.

14. The adhesive composition of claim 1, further comprising an antioxidant and a stabilizer in an amount of 0.1%-2% by weight of the composition.

15. The adhesive composition of claim 1, wherein the adhesive composition has the following properties:

a constant load debonding rate between 0.001 in/min and 0.03 in/min, acquired with a 180° peel orientation at 120 °F under a constant load of 150 grams per inch of width; and

a peel adhesion between 3 lbs/in and 30 lbs/in at 25 °F.

16. The adhesive composition of claim 15, wherein the peel adhesion comprises T-peel adhesion, acquired according to modified ASTM D1876 at a run rate of 2 inches/min, about 15 minutes after an adhesive bond is formed, at 25 °F.

17. The adhesive composition of claim 15, wherein the peel adhesion comprises bond to concrete peel adhesion, acquired according to modified ASTM D903, with an average peel angle of 90°, at 25 °F.

18. The adhesive composition of claim 15, wherein the composition has an average melt viscosity of 2000-5000 cP at 350 °F and/or an average melt viscosity of 6000-15000 cP at 300 °F, acquired at a temperature between 250-400 °F on a parallel plate rheometer operating in steady state flow mode from shear rates of 0.1-100 1/s.

19. A waterproofing product, comprising the hot-melt pressure-sensitive adhesive composition of claim 1.