CLAIMS:

1. A stabilizing composition comprising at least one monomeric material selected from the group consisting of an acrylate-based monomer and a butadiene-based monomer, and at least one polymeric material selected from the group consisting of polyacrylate, styrene butadiene rubber, carboxylated styrene butadiene rubber, natural rubber latex, synthetic latex and cross-linked polystyrene divinyl benzene, as a homogenous aqueous emulsion.

2. The stabilizing composition of claim 1, wherein the at least one monomeric material is an acrylate-based monomer ~~or styrene acrylate~~.

3. The stabilizing composition of claim 1, wherein the at least one monomeric material is a ~~styrene~~-butadiene-based monomer.

4. The stabilizing composition of any one of claims 1 to 3, wherein the at least one monomeric material and the at least one polymeric material are present in a ratio of about 0.1:1 to 6:1 (w/w).

5. The stabilizing composition of claim 4, wherein the at least one monomeric material and the at least one polymeric material are present in a ratio of about 0.8:1 to 1.3:1 (w/w).

6. The stabilizing composition of any one of claims 1 to 5, further comprising an additive to stabilize the homogenous aqueous emulsion.

7. The stabilizing composition of claim 6, wherein the additive is polyether-ethoxylated nonylphenol.

8. The stabilizing composition of claim 6 or claim 7, further comprising a coalescing agent.

9. The stabilizing composition of claim 8, wherein the coalescing agent is a glycol ether.

10. The stabilizing composition of claim 8, wherein the coalescing agent is trimethyl pentanediol monoisobutyrate.

11. The stabilizing composition of any one of claims 1 to 10, further comprising a defoamer.

12. The stabilizing composition of claim 11, wherein the defoamer comprises hydrocarbons and non-ionic surfactants.

13. The stabilizing composition of any one of claims 1 to 12, further comprising a bacticide.

14. The stabilizing composition of claim 13, wherein the bacticide comprises methyl and benzisothiazolinone.

15. The stabilizing composition of any one of claims 1 to 14, further comprising a dispersant.

16. The stabilizing composition of claim 15, wherein the dispersant is a finely dispersed aqueous dispersion of a carboxylated styrene-butadiene copolymer.

17. The stabilizing composition of claim 16, comprising 40-60 % w/w water, 5-30 % polymeric material, 5-30 % monomeric material, 0.1-0.5 % defoamer, 0-10 % coalescing agent and 0.1-2 % bacticide as a homogenous aqueous emulsion.

18. The stabilizing composition of claim 16, comprising 44-50 % water, 20-25 % polymeric material, 20-25 % monomeric material, 0.1-0.5 % defoamer, 1-3 % coalescing agent and 0.5-2 % bacticide as a homogenous aqueous emulsion.

19. A stabilizing composition comprising at least one monomeric material selected from the group consisting of an acrylate-based monomer and a butadiene-based monomer, at least one polymeric material selected from the group consisting of polyacrylate, styrene butadiene rubber, carboxylated styrene butadiene rubber, natural rubber latex, synthetic latex and cross-linked polystyrene divinyl benzene, and an anionic bitumen emulsion as a homogenous aqueous emulsion.

20. The stabilizing composition of claim 19, wherein the at least one monomeric material is an acrylate-based monomer ~~or styrene acrylate~~.

21. The stabilizing composition of claim 19, wherein the at least one monomeric material is ~~styrene~~ a butadiene-based monomer.

22. The stabilizing composition of any one of claims 19 to 21, wherein the at least one monomeric material and the at least one polymeric material are present in a ratio of about 0.1:1 to 6:1 (w/w).

23. The stabilizing composition of claim 22, wherein the at least one monomeric material and the at least one polymeric material are present in a ratio of about 0.8:1 to 1.3:1 (w/w).

24. The stabilizing composition of any one of claims 19 to 23, further comprising at least one plasticizing agent.

25. The stabilizing composition of claim 24, wherein the at least one plasticizing agent is a dibenzoate plasticizer.

26. The stabilizing composition of any one of claims 19 to 25, further comprising an additive to stabilize the homogenous aqueous emulsion.

27. The stabilizing composition of claim 26, wherein the additive is polyether-ethoxylated nonylphenol.

28. The stabilizing composition of claim 26 or claim 27, further comprising a coalescing agent.

29. The stabilizing composition of claim 28, wherein the coalescing agent is a glycol ether.

30. The stabilizing composition of claim 29, wherein the coalescing agent is trimethyl pentanediol monoisobutyrate.

31. The stabilizing composition of any one of claims 19 to 30, further comprising a defoamer.

32. The stabilizing composition of claim 31, wherein the defoamer comprises hydrocarbons and non-ionic surfactants.

33. The stabilizing composition of any one of claims 19 to 32, further comprising a bacticide.

34. The stabilizing composition of claim 33, wherein the bacticide comprises methyl and benzisothiazolinone.

35. The stabilizing composition of any one of claims 19 to 34, further comprising a dispersant.

36. The stabilizing composition of claim 35, wherein the dispersant is a finely dispersed aqueous dispersion of a carboxylated styrene-butadiene copolymer.

37. The stabilizing composition of any one of claims 19 to 36, comprising 40-60 % water, 5-30 % polymeric material, 5-30 % monomeric material, 0.1 %-0.5% defoamer, 0-10 %

coalescing agent, 40-60 % anionic bitumen, 1-10 % plasticizing agent and 0.1-2 % bacticide as a homogenous aqueous emulsion.

38. The stabilizing composition of any one of claims 19 to 36, comprising 40-50 % water, 10-15 % polymeric material, 10-15 % monomeric material, 0.1-0.5 % defoamer, 1-3 % coalescing agent, 45-55 % anionic bitumen, 1-10 % plasticizing agent and 0.5-2 % bacticide as a homogenous aqueous emulsion.

~~39. A method of stabilizing a quantity of soil, the method comprising the following steps:~~

~~(i) combining a stabilizing composition comprising at least one monomeric material and at least one polymeric material as a homogenous aqueous emulsion, with a quantity of soil;~~

~~(ii) mixing the stabilizing composition and the soil, wherein the mixing is undertaken using a stabilizing machine, a pug mill, or *in situ* using a grader; and~~

~~(iii) combining the product of step (ii) with a further quantity of stabilizing composition as defined in step (i).~~

~~40. The method of claim 39, wherein the step of combining the resultant mixture of stabilizing composition and soil with a further quantity of stabilizing composition, step (iii), is repeated between about 1 and about 50 times.~~

~~41. The method of claim 39 or claim 40, wherein the soil to be stabilized is coarse, medium or fine gravel.~~

~~42. The method of claim 39 or claim 40, wherein the soil to be stabilized is coarse or fine sand.~~

~~43. The method of claim 39 or claim 40, wherein the soil to be stabilized is silt or clay.~~

~~44. The method of any one of claims 39 to 43, wherein the stabilizing composition is added to the soil at a temperature between about 0 °C and about 70 °C.~~

~~45. The method of claim 44, wherein the stabilizing composition is added to the soil at a temperature between about 5 °C and about 60 °C.~~

~~46. A method of stabilizing a quantity of soil, the method comprising the following steps:~~

~~(i) combining a stabilizing composition comprising at least one monomeric material, at least one polymeric material and an anionic bitumen emulsion as a homogenous aqueous emulsion, with a quantity of soil;~~

~~(ii) mixing the stabilizing composition and the soil, wherein the mixing is undertaken using a stabilizing machine, a pug mill, or *in situ* using a grader; and~~

~~(iii) combining the product of step (ii) with a further quantity of stabilizing composition as defined in step (i).~~.

~~47. The method of claim 46, wherein the step of combining the resultant mixture of stabilizing composition and soil with a further quantity of stabilizing composition is repeated between about 1 and about 50 times.~~

~~48. The method of claim 46 or claim 47, wherein the soil to be stabilized is coarse, medium or fine gravel.~~

~~49. The method of claim 46 or claim 47, wherein the soil to be stabilized is coarse or fine sand.~~

~~50. The method of claim 46 or claim 47, wherein the soil to be stabilized is silt or clay.~~

~~51. The method of any one of claims 46 to 50, wherein the stabilizing composition is added to the soil at a temperature between about 0 °C and about 70 °C.~~

~~52. The method of claim 51, wherein the stabilizing composition is added to the soil at a temperature between about 5 °C and about 60 °C.~~