CLAIMS

What is claimed:

1. An oral care composition comprising bioactive glass, one or more occlusion agents and one or more bioadhesive active components, wherein the oral care composition provides a fluid flow rate on dentin of no greater than about 45% of the fluid flow rate ~~of~~ on etched dentin.

2. The composition of claim 1, wherein the bioadhesive ~~agent~~ component comprises a bioadhesive polymer selected from the group consisting of PEG/PPG copolymers, polyvinylmethylether/maleic anhydride copolymers, polyvinylpyrrolidone (PVP), cross-linked PVP, shellac, polyethylene oxide, methacrylates, acrylates copolymers, methacrylic copolymers, vinylpyrrolidone/vinyl acetate copolymers, polyvinyl caprolactum, polylactides, silicone resins, silicone adhesives, chitosan, milk proteins (casein), amelogenin, ester gum, and combinations thereof.

~~3. The composition of claim 1 comprising additionally one or more occlusion agents.~~

43. The composition of claim ~~3~~1, wherein the occlusion agent comprises arginine/calcium carbonate, arginine bicarbonate/calcium carbonate, and small particle silica or combinations.

~~5~~4. The composition of claim ~~2~~1, wherein the bioadhesive agent comprises amino acids including arginine.

45. The composition of claim ~~1~~2, wherein the one or more bioadhesive polymers comprises from 0.1 wt. % to 70 wt. % by weight of the composition.

~~5. The composition of claim 1, wherein the one or more bioadhesive polymers comprises from 5 wt. % to 20 wt. % by weight of the composition.~~

6. The composition of claim ~~1~~3, wherein the one or more occlusion agents comprises form 0.1% to 50% by weight of the composition.

7. The composition of claim ~~1~~2, wherein the one or more bioadhesive polymers comprises PEG/PPG copolymers.

8. The composition of claim ~~1~~2, wherein the one or more bioadhesive polymers comprises polyvinylmethylether/maleic acid.

9. The composition of claim ~~1~~2, wherein the one or more bioadhesive polymers comprises cross-linked PVP.

10. The composition of claim ~~1~~2, wherein the one or more bioadhesive polymers comprises shellac.

11. The composition of claim ~~1~~2, wherein the one or more bioadhesive polymers comprises ester gum.

12. The composition of claim ~~1~~3, wherein the occlusion agent is a bioactive glass.

13. The composition of claim ~~1~~3, wherein the occlusion agent is arginine bicarbonate/calcium carbonate.

14. The composition of claim ~~1~~3, wherein the occlusion agent is a small particle size silica.

15. The composition of ~~claim 1~~ any of the preceding claims, wherein the composition further comprises an anti-caries agent.

16. The composition of ~~claim 1~~ any of the preceding claims, wherein the composition further comprises a fluoride source.

17. The composition of ~~claim 1~~ any of the preceding claims, wherein the composition further comprises an agent to treat xerostomia.

18. The composition of ~~claim 1~~ any of the preceding claims, wherein the composition further comprises a desensitizing agent.

19. The composition of ~~claim 1~~ any of the preceding claims, wherein the composition further comprises a whitener or teeth bleach.

20. The composition of ~~claim 1~~ any of the preceding claims, wherein the composition further comprises an antibacterial agent.

21. An oral care composition comprising an occlusion agent, the occlusion agent comprising:

a. bioactive glass,

b. arginine bicarbonate/calcium carbonate,

c. arginine /calcium carbonate,

d. a small particle silica, and

e. one or more bioadhesive polymer components comprising PEG/PPG copolymers, polyvinylmethylether/maleic acid, cross-linked PVP, shellac, ester gum, and combinations thereof,

wherein the oral care composition provides a fluid flow rate on dentin of no greater than about 45% of the fluid flow rate ~~of~~ on etched dentin.

22. The composition of claim 21, which is a tooth varnish~~;~~.

23. ~~A method to treat a tooth comprising applying the~~ Use of a composition of claim 21 in the manufacture of a medicament for treating a tooth, wherein said composition is to be applied to a tooth for an effective amount of time.

24. The ~~method~~ use of claim 23, wherein the composition is to be applied to two or more teeth.

25. The ~~method~~ use of claim 23, wherein the composition is to remains on the tooth for at least 1 hour.

26. The ~~method~~ use of claim 23, wherein the composition is to remains on the tooth for at least 2 hours.

27. The ~~method~~ use of claim 23, wherein the composition is to remains on the tooth for at least 5 hours.

28. The ~~method~~ use of claim 23, wherein the composition is to remains on the tooth for at least 24 hours.

29. The composition of claim 2, wherein the one or more bioadhesive polymers comprises from 5 wt. % to 20 wt. % by weight of the composition.

30. An oral care composition according to any one of claims 1 to 18 for use in a method to treat tooth sensitivity, the method comprising applying the composition of any one of

claims 1 to 18 to a tooth or optionally two or more teeth for an effective amount of time, optionally wherein the composition remains on the tooth or teeth for at least 1 hour, further optionally at least 2 hours, further optionally at least 5 hours, still further optionally at least 24 hours.