CLAIMS

1. ~~Materials from which a write-erasable surface is formed~~A paint composition, comprising:

a resin part, comprising: an epoxy, a polysiloxane and an organooxysilane;

a cure part, comprising: one or more amino-silanes,

~~wherein~~ the resin part and the cure part being designed and selected such that, when combined together~~, they form a solventless composition that when applied cures~~ with an amine to epoxy equivalent weight in a range of about 1.3 to about 5, they cure to form a~~the write-erasable surface, wherein the write-erasable surface is characterized in~~ coating that ~~it~~ demonstrates at least one dry-erase characteristic.

2. The ~~materials~~ paint composition of claim 1, wherein the cure part further comprises a opacifying agent or pigment.

3. The ~~materials~~ paint composition of claim 1, wherein the cure part further comprises a catalyst.

4. The ~~materials~~ paint composition of claim 1, wherein the amino-silane is selected from 2-aminoethy1-3-aminopropyl methyldimethoxysilane, n-buty1-3aminopropyl trimethoxysilane, 3-aminopropyl methyldiethoxysilane, 3-aminopropyl triethoxysilane, 2-aminoethyl-3-aminopropyl trimethoxysilane or any combination thereof.

~~5. The materials of claim 1, wherein the paint composition has an amine to epoxy equivalent weight in a range of about 2 to about 5.~~

~~6~~5. The ~~materials~~ paint composition of claim 1, wherein the dry-erase characteristic is selected from the group consisting of an average surface roughness (Ra) of less than about 7,500 nm; a maximum surface roughness (Rm) of less than about 10,000 nm; a 60 degree gloss of higher than 70; a contact angle of less than about 150 degrees; a porosity of less than about 45 percent; an elongation at break of between about 10 percent and about 100 percent; a Sward hardness of greater than about 3; a Taber abrasion value of less than about 150 mg/thousand cycles; a sag resistance of between about 4 mils and about 24 mils, and combination thereof.

~~7~~6. The ~~materials~~ paint composition of claim 1, wherein the surface coating is characterized in that, when its surface is written on with a marking material comprising

a colorant and a solvent, the solvent comprising one or more of water, alcohols, alkoxy alcohols, ketones, ketonic alcohols, esters, acetates, mineral spirits, or mixtures thereof, the marking material can be erased from the surface of the write-erasable material to be substantially invisible for more than 100 cycles of writing and erasing at the same position.

~~8~~7. The ~~materials~~ paint composition of claim 1, wherein the surface coating is characterized by a soak time value of at least about 4.

~~9~~8. The ~~materials~~ paint composition of claim 1, wherein the paint composition has volatile organic compounds (VOCs) of less than 140 g/L.

~~10~~9. The ~~materials~~ paint composition of claim 1, wherein the paint composition has VOCs of less than 100 g/L.

~~11~~10. The ~~materials~~ paint composition of claim 1, wherein the resin part is in a first container and the cure part is in a second container.

~~12~~11. A dry-erase product comprising:

a curable ~~solventless~~ composition extending upon a substrate, the curable ~~solventless~~ composition being comprised of a combination of

a resin part comprising an epoxy, a polysiloxane and an organooxysilane; and

a cure part comprising one or more amino-silanes,

wherein the curable composition has an amine to epoxy equivalent weight in a range of about 1.3 to about 5, and

wherein the curable ~~solventless~~ composition is characterized in that it cures under ambient conditions to form a surface coating characterized by at least one dry-erase characteristic.

~~13~~12. A method of forming a dry-erase product, the method comprising:

applying a ~~solventless~~ composition of a paint composition to a substrate to form a coating that cures to provide a surface, wherein the paint composition comprises:

a resin part comprising an epoxy, a polysiloxane and an organooxysilane; and

a cure part comprising one or more amino-silanes;

the resin part and the cure part being designed and selected such that, when combined together with an amine to epoxy equivalent weight in a range of about 1.3 to about 5, they cure to form a surface coating that demonstrates at least one dry-erase characteristic.

13. A paint composition comprising:

a resin part comprising an epoxy, a polysiloxane and an organooxysilane; and

a cure part comprising one or more amino-silanes, which one or more amino-silanes comprise a combination of 2-aminoethyl-3-aminopropyl trimethoxysilane and n-butyl-3-aminopropyl trimethoxysilane;

the resin part and the cure part being designed and selected such that, when combined together, they cure to form a surface coating that demonstrates at least one dry-erase characteristic.

14. The paint composition of claim 13, wherein the paint composition has an amine to epoxy equivalent weight in a range of about 1 to about 5.

15. The paint composition of claim 14, wherein the dry-erase characteristic is selected from the group consisting of an average surface roughness (Ra) of less than about 7,500 nm; a maximum surface roughness (Rm) of less than about 10,000 nm; a 60 degree gloss of higher than 70; a contact angle of less than about 150 degrees; a porosity of less than about 45 percent; an elongation at break of between about 10 percent and about 100 percent; a Sward hardness of greater than about 3; a Taber abrasion value of less than about 150 mg/thousand cycles; a sag resistance of between about 4 mils and about 24 mils, and combination thereof.

16. The paint composition of claim 14, wherein the surface coating is characterized in that, when its surface is written on with a marking material comprising a colorant and a solvent, the solvent comprising one or more of water, alcohols, alkoxy alcohols, ketones, ketonic alcohols, esters, acetates, mineral spirits, or mixtures thereof, the marking material can be erased from the surface of the write-erasable material to be substantially invisible for more than 100 cycles of writing and erasing at the same position.