~~What is claimed~~Claims:

1. A waterborne, water-resistant, flexible cementitious coating composition comprising:

a) a polymer component comprising:

i) an aqueous styrene-butadiene latex; and

ii) one or more epoxy silane; and

b) an inorganic component comprising:

i) cement; and

ii) one or more solid filler,

wherein the one or more epoxy silane comprises at least two epoxy functional groups and at least two hydrolysable functional groups selected from the group consisting of siloxy, silane, silanol, and combinations thereof.

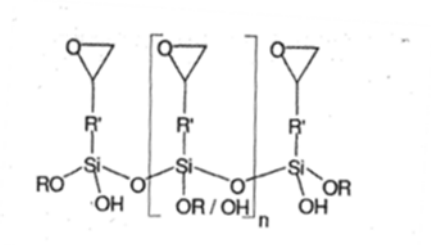
2. The composition ~~of~~ as claimed in claim 1, wherein the aqueous styrene-butadiene latex comprises a copolymer comprising polymerized units of styrene monomer in an amount of from 15 to 85% by weight of the copolymer based on the total dry weight of the copolymer and polymerized units of butadiene monomer in an amount of from 15 to 85% by weight of the copolymer based on the total dry weight of the copolymer.

~~3. The composition of claim 1, wherein the one or more epoxy silane comprises at least one epoxy functional group and at least one hydrolysable functional group selected from the group consisting of siloxy, silane, silanol, and combinations thereof.~~

~~4. The composition of claim 1, wherein the one or more epoxy silane comprises at least two epoxy functional groups and at least two hydrolysable functional groups selected from the group consisting of siloxy, silane, silanol, and combinations thereof.~~

~~5~~3. The composition ~~of~~ as claimed in claim 1, wherein the one or more epoxy silane comprises an oligomeric epoxy silane.

~~6~~4. The composition ~~of~~ as claimed in claim 1, wherein the one or more epoxy silane comprises:



wherein R' is $-(CH_2)_x-O-(CH_2)_y-$, wherein x and y are independently selected from 0 to 5; each R is independently selected from a C1 to C6 alkyl group; and n is from 0 to 8~~, limits inclusive~~.

~~7~~5. The composition ~~of~~ as claimed in claim 1, wherein the cement comprises at least one of ~~Portland~~ portland ~~Cement~~ cement and calcium aluminate cement.

~~8~~6. The composition ~~of~~ as claimed in claim 1, wherein the composition has a polymer component to cement ratio, based on solids, of from 5:1 to 1:5.

~~9~~7. The composition ~~of~~ as claimed in claim 1, wherein the filler is selected from the group consisting of sand, calcium carbonate, silica, TiO_2, ZnO, Barium sulfate, fly ash, fumed silica, metakaolin, and combinations thereof.

~~10~~8. The composition ~~of~~ as claimed in claim 1, further comprising one or more buffer~~, or residue thereof~~.

~~11~~9. The composition ~~of~~ as claimed in claim 1, further comprising a superplasticizer, wherein the superplasticizer is selected from the group consisting of poly(melamine sulfonate), poly(naphthalene sulfonate), polycarboxylate, salts thereof, derivatives thereof, and combinations thereof.

~~12. A method for forming a water-resistant, flexible cementitious coating, layer or membrane comprising:~~
~~applying the composition of claim 1 to a substrate to form a wet cementitious coating layer; and~~
~~allowing or facilitating the wet cementitious coating layer to dry and/or cure to form a dried and/or cured cementitious coating, layer or membrane.~~

~~13. The method of claim 12, wherein the substrate is selected from the group consisting of concrete, stone, bricks, tile, drywall, cementitious materials, metal, wood, and synthetic materials.~~

~~14. The water-resistant, flexible cementitious coating, layer or membrane produced by the method of claim 12.~~

~~15~~10. A kit comprising:

an aqueous styrene-butadiene latex;

one or more epoxy silane;

cement; and

one or more solid filler;

wherein the one or more epoxy silane comprises one or more one epoxy functional group and one or more hydrolysable functional groups selected from the group consisting of siloxy, silane, silanol, and combinations thereof, and wherein the aqueous styrene-butadiene latex and the one or more epoxy silane are contained in a first pack.

~~16. The kit of claim 15, wherein the aqueous styrene-butadiene latex and the one or more epoxy silane are contained in a first pack.~~

~~17~~11. The kit ~~of~~ as claimed in claim ~~16~~10, wherein the cement and one or more solid filler are contained in a second pack.

~~18~~12. The kit ~~of~~ as claimed in ~~any~~ claim ~~15~~10, wherein the pH of the styrene-butadiene latex ranges from 5 to 9.

~~19~~13. A water-resistant, flexible cementitious coating, layer or membrane comprising:

a styrene-butadiene copolymer ~~or residue thereof~~;

cement;

one or more solid filler; and

an epoxy silane, ~~or epoxy silane residue~~

wherein the one or more epoxy silane comprises at least two epoxy functional groups and at least two hydrolysable functional groups selected from the group consisting of siloxy, silane, silanol, and combinations thereof.

~~20~~14. The water-resistant, flexible cementitious coating, layer or membrane ~~of~~ as claimed in claim ~~19~~13, further comprising one or more buffer~~, or residue thereof~~.

~~21~~15. The water-resistant, flexible cementitious coating, layer or membrane ~~of~~ as

claimed in claim ~~19~~13, further comprising a superplasticizer, wherein the superplasticizer is selected from the group consisting of poly(melamine sulfonate), poly(naphthalene sulfonate), polycarboxylate, salts thereof, derivatives thereof, and combinations thereof.