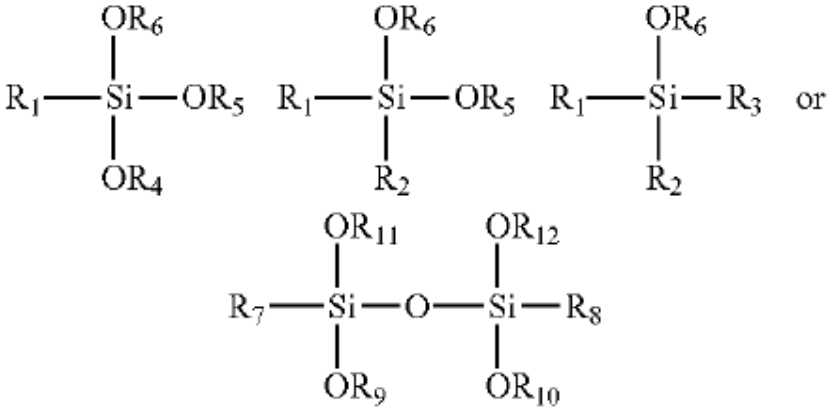
Claims

1. An admixture composition for integrally waterproofing a cementitious material, comprising:

(A) an animal oil, a vegetable oil, or derivative thereof chosen from a C_6-C_{30} fatty acid, an ester of C_6-C_{30} fatty acids, an ethoxylated compound of C_6-C_{30} fatty acid, C_6-C_{30} fatty amine, C_6-C_{30} fatty amide, tall oil derivative, or a mixture thereof;

(B) an organosilicon having the structural formula chosen from



wherein R_1 R_2 R_3 R_7 and R_8 represent a C_6 to C_{20} alkyl group, and R_4, R_5, R_6, R_9, R_{10}, R_{11}, and R_{12} each independently represent a C_1 to C_5 alkyl group; and

(C) at least one air defoamer for detraining air from a hydratable cementitious composition, wherein the ratio (A:B) between components (A) and (B) is 99:1 to 50:50 based on weight of components; and

wherein the ratio (B:C) between components (B) and (C) is 99.9:0.1 to 90:10 based on weight of components.

2. The admixture composition of claim **1** wherein the ratio (A:B) between components (A) and (B) is 98:2 to 40:60 based on weight of components.

3. The admixture composition of claim **2** wherein the ratio (A:B) between components (A) and (B) is 95:5 to 20:80 based on weight of components.

4. The admixture composition of claim **1** comprising a vegetable oil or derivative thereof, the vegetable oil chosen from rapeseed oil, sunflower oil, soy bean oil, castor oil, peanut oil, grape seed oil, corn oil, canola oil, coconut oil, linseed oil, sesame oil, olive oil, palm oil, almond oil, avocado oil, china wood oil, cocoa oil, safflower oil, hemp seed oil, walnut oil, poppy seed oil, oiticaca oil, palm nut oil, *perilla* oil, pecan oil, tung oil, and pine tar oil.

5. The admixture composition of claim **1** comprising a vegetable oil derivative chosen from mono and diglycerides of C_6-C_{30} fatty acids, esters of C_6-C_{30} fatty acids, ethoxylated compounds of C_6-C_{30} fatty acids, C_6-C_{30} fatty amines, C_6-C_{30} fatty amides, tall oil derivatives, or a mixture thereof.

6. The admixture composition of claim **1** comprising a vegetable oil chosen from canola oil, rapeseed oil, or mixture thereof.

7. The admixture composition of claim **1** wherein the organosilicon is a silane.

8. The admixture composition of claim **7** wherein the silane is octyltriethoxysilane.

9. The admixture composition of claim **1** wherein the air defoamer is chosen from tributyl phosphate, a polyoxyalkylene, a glycol, or a mixture thereof.

10. The admixture composition of claim **1**, wherein the composition is devoid of hydroxyl groups.

11. The admixture composition of claim **1** further comprising an admixture chosen from sugars, carbohydrates, water reducers, or mixture thereof.

12. A composition comprising: a cement binder and the admixture composition of claim **1**.

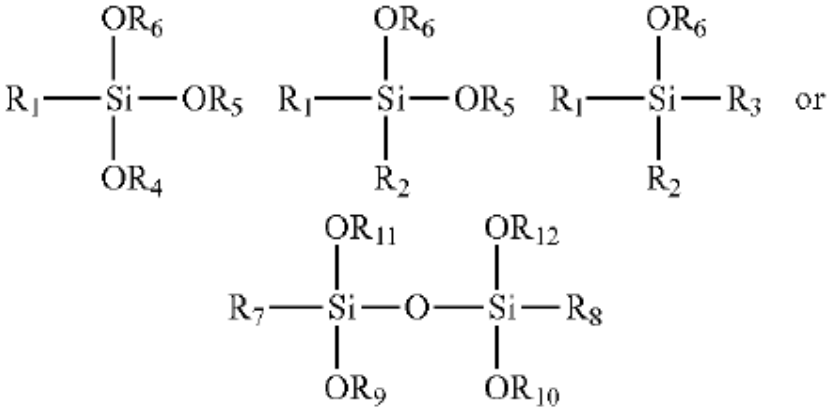
13. A method for integrally waterproofing a cementitious material, comprising: introducing to a cement the admixture composition of claim **1**.

14. A cementitious composition comprising:

(A) a cement;

(B) an animal oil, a vegetable oil, or derivative thereof or mixture thereof;

(C) an organosilicon having a structural formula chosen from



wherein R_1 R_2 R_3 R_7 and R_8 represent a C_6 to C_{20} alkyl group, and R_4, R_5, R_6, R_9, R_{10}, R_{11}, and R_{12} each independently represent a C_1 to C_5 alkyl group; and

(D) at least one air defoamer for detraining air in a

hydratable cementitious composition;

wherein the weight ratio (B:C) between components (B) and (C) is 99:1 to 50:50 based on weight of these components;

wherein the weight ratio (C:D) between components (C) and (D) is 99.9:0.1 to 90:10 based on the weight of these components; and

wherein the weight ratio (A:B+C+D) of component (A) to components (B), (C), plus (D) is 1:0.02 to 1:0.15 based on the weight of these components.

15. The cementitious composition of claim **14** wherein the weight ratio (B:C) between components (B) and (C) is 98:2 to 40:60.

16. The cementitious composition of claim **14** wherein the weight ratio (B:C) between components (B) and (C) is 95:5 to 20:80.

17. The cementitious composition of claim **14** comprising oil derivatives chosen from butyl and 2-ethyl hexyl esters of palmitic, stearic, oleic and lauric acids.