## CLAIMS

1. A cementitious formulation comprising:

a cement;

fly ash;

water;

silica fume;

river sand;

zeolite;

a retarder;

a polymeric fiber; and

one or more water-reducing agents.

2. The cementitious formulation of claim 1, wherein the cement comprises 5 wt% to 70 wt% of the cementitious formulation; and/or

wherein the cement comprises Portland cement; and/or

wherein the water comprises 10 wt% to 25 wt% of the cementitious formulation; and/or

wherein the polymeric fiber comprises polyethylene or polyvinyl alcohol; and/or

wherein the one or more water-reducing agents comprise two water-reducing agents.

3. The cementitious formulation of claim 2, wherein the two water-reducing agents are different and each comprises 0.1 wt% to 0.5 wt% of the cementitious formulation.

4. The cementitious formulation of any one of claims 1 to 3, wherein the one or more water-reducing agents are absent of chloride and are non-corrosive.

5. The cementitious formulation of any one of claims 1 to 4, wherein the one or more water-reducing agents is a superplasticizer, wherein the superplasticizer is a polymer-based superplasticizer which is absent of chloride, and wherein the polymer-

based superplasticizer comprises sulfonated naphthalene formaldehyde condensate, sulfonated melamine formaldehyde condensate, acetone formaldehyde condensate, and/or polycarboxylates ethers.

6. The cementitious formulation of claim 5, wherein two different water-reducing agents are present, and wherein the cement, the water, the polymeric fiber, the two different water-reducing agents, and the superplasticizer, are present in a weight ratio of 5 to 70 : 10 to 25 : 0.5 to 2 : 0.1 to 0.5 : 0.1 to 0.5.

7. The cementitious formulation of any one of claims 1 to 6, further comprising:

a cementitious material;

an aggregate; and/or

a viscosity modifying agent,

wherein the cementitious material comprises ground granulated blast furnace slag.

8. The cementitious formulation of any one of claims 1 to 7, wherein the silica fume comprises an average size of 110 μm and/or a maximum size of 200 μm.

9. The cementitious formulation of claim 7, wherein the aggregate comprises micro silica sand.

10. The cementitious formulation of claim 7, wherein the retarder is absent of chloride and is non-corrosive; and/or

wherein the viscosity modifying agent is absent of chloride and is non-corrosive.

11. The cementitious formulation of claim 7, wherein the fly ash, the silica fume, the aggregate, the zeolite, the retarder, and the viscosity modifying agent, are present in a weight ratio of 0 to 55 : 0 to 10 : 0 to 20 : 0 to 5 : 0 to 5 : 0 to 5.

12. The cementitious formulation of claim 7, wherein the fly ash, the aggregate, and the zeolite, are present in a weight ratio of 0 to 55 : 0 to 20 : 0 to 5.

13. A method for forming the cementitious formulation of any one of claims 1 to 12, the method comprising:

forming a liquid mixture comprising water, one or more water-reducing agents, a retarder, and a first portion of one of the one or more water-reducing agents;

mixing the liquid mixture, a cement, and fly ash, to form a binder mixture;

mixing the binder mixture first with a polymeric fiber then a second portion of the same water-reducing agent used for the first portion; and

further comprising:

forming a solid mixture comprising silica fume, river sand, and zeolite; and

mixing the solid mixture and the liquid mixture prior to mixing the liquid mixture and the cement.

14. The method of claim 13, wherein

forming the solid mixture comprises mixing the silica fume, the river sand, an aggregate, and the zeolite,

wherein the aggregate comprises micro silica sand.

15. The method of claim 13 or 14, further comprising:

mixing the binder mixture with a third portion of the same water-reducing agent used for the first portion or a viscosity modifying agent prior to the mixing of the binder mixture first with the polymeric fiber then the second portion of the same water-reducing agent used for the first portion.