

the Pozzolanic Reaction

2

Replacing some of the Portland cement with natural pumice



1

In curing concrete, the same hydration reaction that generates Calcium Silica Hydrate (CSH)—aggregate-binding glue—also spawns junk Calcium Hydroxide (CH) which not only does nothing to contribute to concrete strength and density, but actively works against it.



pozzolan ignites a pozzolanic reaction within the hydrated concrete paste that consumes trouble-making CH and converts it into additional CSH.



3

The additional CSH does what you'd expect: makes the concrete or cementitious grout stronger, denser, and more enduring.



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