CONSISTENCY: THE CASE FOR USING

Natural Pumice Pozzolan Instead of Fly Ash

For those pouring concrete for use in high-performance and exacting-appearance products, the choice of a pozzolan comes down to one critical point: consistency.

Consistent Performance: The simple fact that fly ash-type pozzolan is a byproduct scrubbed from the residue of coal-fired generation plants—burning coal of varying types and qualities—means fly ash cannot be a consistently reliable component in the carefully balanced mix design for critical concrete products. Better to source a reliable, consistently-performing pozzolan like Hess Pozz, made from the purest commercial deposit of white pumice on the planet.†

Consistent Color: When it comes to reliable color-consistency, fly ash users have a big problem. As mentioned above, the differing qualities of coal being burned also result in color variations in the fly ash. For concrete applications where the color must be consistent and impeccable, color fluctuation in the pozzolan is a costly bane. Hess Pozz is consistently white.

Consistent Purity: The product of burning coal, fly ash is loaded with heavy metals and other hazardous contaminates. Hess Pozz is naturally free of contaminates and save to use.

Consistent Supply: Procure pozzolan from a steady, consistent source—both the company who makes it and the quality and consistency of the pozzolan itself. Hess pozzolans are always on-spec and on-time.

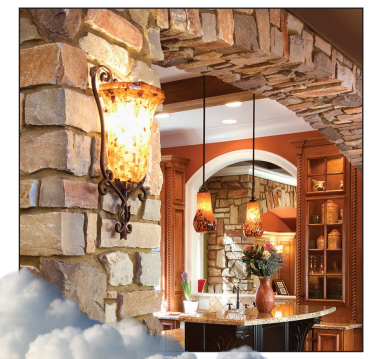
Regulatory Uncertainty: The particulate emissions of the coal-fired power industry are heavily regulated by the federal government. It's an ever-changing morass of regulations and emissions targets—and those regulations effect the fly ash byproduct that is scrubbed from furnace stacks and marketed as pozzolan. Hess Pozz is sustainably mined, refined, and shipped world-wide.

Flatline ASR: Comprehensive research shows that fly ash-type pozzolans simply do not mitigate Alkaline Silica Reaction as effectively as Hess Pozz. Extensive testing by the University of Utah (and others) documents the significant effect Hess Pozz has on ASR. And, combined with the fact that pumice-based pozzolan is used as a direct replacement for a percentage of Portland cement in the concrete mix design, it only costs pennies per yard to flatline the ASR problem.††

TOP: As a waste product of burning coal, fly ash is notoriously inconsistent in color and quality, even coming from the same coal-burning source.

ABOVE: Pure and white (GE Brightness of 84) pumice pozzolan.

BELOW: For many concrete products, purity and consistency of color matters.



NATURAL PUMICE POZZOLAN

Hess POZZ
IDAHO USA

† See PDF: *How Pumice Pozzolans Super-Charge Concrete Performance* at www.hesspozz.com/downloads.html

†† See PDF: *Flatline Your ASR Problem for Pennies a Yard* at www.hesspozz.com/downloads.html

Download the research by University of Texas-Austin quantifying Hess pumice pozz performance vs. fly ash at www.**flyashreplacement.com**

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