



**Pozzotive®**

*Supplementary Cementitious Material*

Pozzotive is a high performance supplementary cementitious material (SCM), also known as a “pozzolan.” It is manufactured from 100% recycled postconsumer bottle glass. Using patented technology, all organics are removed, and the glass is reduced to a finely divided white powder. The glass that feeds this process is recovered from any type of postconsumer source including bottle redemption and curbside pickup.

Pozzotive is classified chemically as an amorphous silicate. For application as an SCM, Pozzotive 12, which has a median particle size of 12 micron, is used. Pozzotive’s attributes include (1) consistent chemical composition and color (2) lack of contaminants that are harmful to concrete quality, such as carbon (3) nontoxic; i.e., contains no harmful crystalline silica or heavy metals and (4) increases concrete strength, durability and resistance to destructive chemicals such as road salt.

Pozzotive can be used to replace up to 40 percent of the white or grey Portland cement in a concrete design mix, and as an additive to existing concrete and mortar mixes for increased durability. Any product made, that uses Portland cement as a binder, can integrate postconsumer content into its design matrix. This integration can significantly reduce the amount of cement required. Some products that Pozzotive can benefit include: concrete block, pre-stressed concrete plank, precast concrete, ready mix, pavers, cast stone, countertops, etc.

Chemical Composition	
Silica (SiO <sub>2</sub> )	70 - 73%
Alumina (Al <sub>2</sub> O <sub>3</sub> )	1 - 6%
Calcium Oxide (CaO)	10 - 12%
Sodium Oxide (Na <sub>2</sub> O)	11 - 13%
Magnesium Oxide (MgO)	1%
Potassium Oxide (K <sub>2</sub> O)	<1%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	<1%
All other oxides combined	<1%

Physical Properties	
% Passing # 325 Mesh	>99%
Specific Gravity	2.46 g/cc
Median Particle Size	12 micron
Strength Activity Index, 28d, % of Control	>100%
Water Requirement, % of Control	97%
Soundness	0.05%
SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub>	75%
Sulphur Trioxide	0.20%
Moisture Content	0.1%
Loss on Ignition	<1%
Brightness	85 - 94%
Specific Surface Area	>5,000 cm <sup>2</sup> /g

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