LAST REVISION: APRIL, 2018

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WESTBRICKS® with Pozzotive® **Supplementary Cementitious Material**

Technical Data Sheet



Manufacturer

Westbrook Concrete Block Company 439 Spencer Plains Road, PO Box 700 Westbrook, CT 06498

www.westbrookblock.com

Product Description

WESTBRICKS® with 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 ₂) $70-73\%$)
Alumina (Al_2O_3) 1–6%	
Calcium Oxide (CaO) 10-12%	
Sodium Oxide (Na ₂ O) 11–13%	
Magnesium Oxide (MgO) 1%	
Potassium Oxide (K_2O) <1%	
Iron Oxide (Fe_2O_3) <1%	
All other oxides combined <1%)

Physical Properties

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% 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%
$SiO_2 + Al2O_3 + Fe_2O_3$	75%
Sulphur Trioxide	0.20%
Moisture Content	0.1%
Loss on Ignition	<1%
Brightness	85-94%
Specific Surface Area	>5,000 cm²/g