

THINK

pozzotive



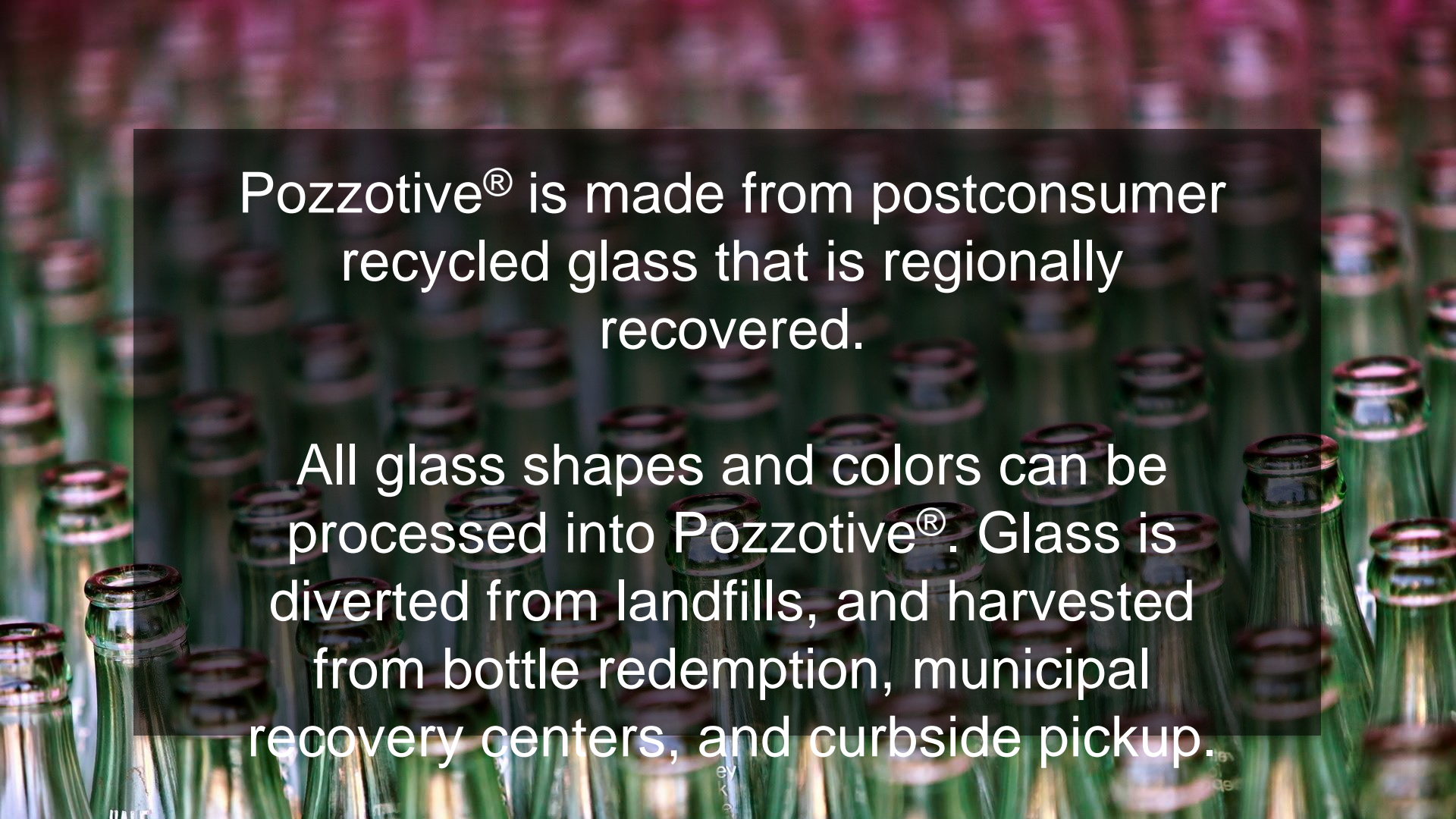
Manufacturing for a Sustainable Tomorrow™

Transforming conventional building materials into sustainable alternatives to preserve our planet for future generations.



Innovative. Sustainable. Responsible.

Pozzotive[®] is an environmentally friendly postconsumer Supplementary Cementitious Material/Pozzolan that replaces up to 40% of Portland cement in concrete.



Pozzotive[®] is made from postconsumer recycled glass that is regionally recovered.

All glass shapes and colors can be processed into Pozzotive[®]. Glass is diverted from landfills, and harvested from bottle redemption, municipal recovery centers, and curbside pickup.

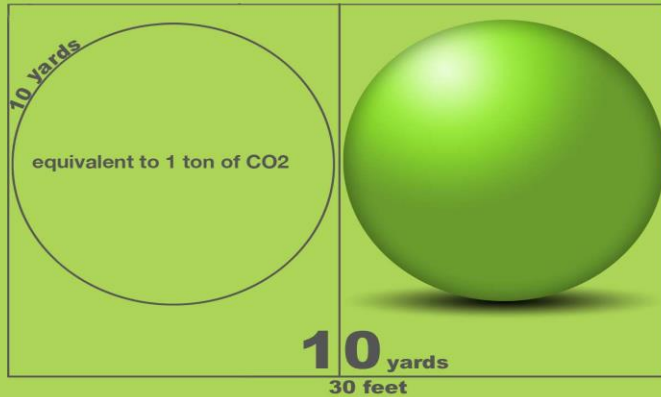
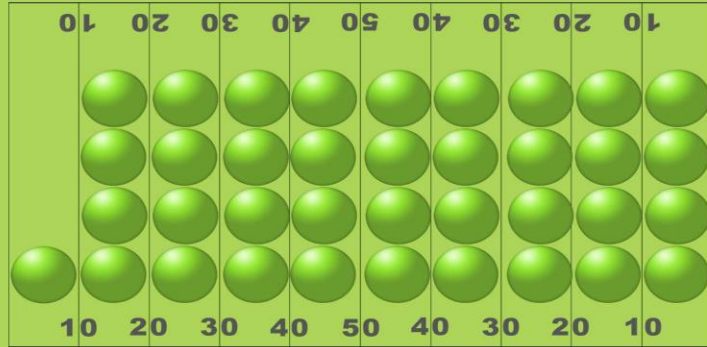
A large stack of grey concrete blocks, likely made of Sustainable High Performance Concrete (SHPC), is shown in a warehouse or industrial setting. The blocks are arranged in a grid pattern, with some blocks having a hollow center. The background shows a concrete floor and a metal structure.

Sustainable High Performance Concrete (SHPC)

Pozzotive[®] postconsumer SCM/Pozzolan
enhances performance of concrete.

Hegeman Residence

This was a typical KBMS project using sustainable high strength concrete. We saved 37 tons of carbon emissions on that project alone.



The image shows two glass jars on a light-colored surface. The jar on the left is partially filled with a dark, granular powder. The jar on the right is filled with a light-colored, fine powder. A semi-transparent dark grey rectangular box is overlaid on the center of the image, containing white text. The text is centered and reads: 'SCM/Pozzolan' followed by a paragraph describing the material's properties and its reaction with calcium hydroxide.

SCM/Pozzolan

A pozzolan is a siliceous or siliceous and aluminous material that possesses little or no cementitious value in itself, but in finely divided form and in the presence of water, it will react chemically with calcium hydroxide at ordinary temperature to form compounds possessing cementitious properties.

Pozzolan Demand

Responding to President Obama's Climate Action Plan, the USEPA has imposed regulations that, as proposed, would significantly reduce the amount of carbon emissions coal-fired electric plants could emit into the atmosphere.

According to the EIA, 1/3 of coal-fired capacity will either convert to natural gas or shutdown by 2020 in order to cut carbon emissions, protect our health, and preserve the environment for future generations.

Fly Ash, a pozzolan commonly used as a cement replacement, is a byproduct of coal combustion.

The proposed changes to coal-fired plants would create a diminishing supply of fly ash, and an increased demand for alternative SCM/Pozzolans.

The Green Advantage

Pozzotive® answers the call as a superior, sustainable SCM/Pozzolan, and is made from recycled glass, which is available in abundance.

Because the chemical composition of glass is always the same, Pozzotive's® particle size is consistent.

Fly ash's particle size is inherently variable due to the many sources of coal, requiring more cement, and air entraining admixtures to compensate.

Fly ash's carbon content prevents it from being used during cold weather months, and it can't be used in pre-cast or pre-stressed concrete.

Pozzotive® can be used during cold weather, and in pre-cast and pre-stressed concrete.

FULL CIRCLE RECYCLING



REGIONAL

Harvest. Process. Manufacture.

To make concrete products that return to the same region from which the recyclable was originally derived.



Cement is the most polluting product on the planet. The cement industry generates 7-8% of the world's manmade carbon dioxide emissions.

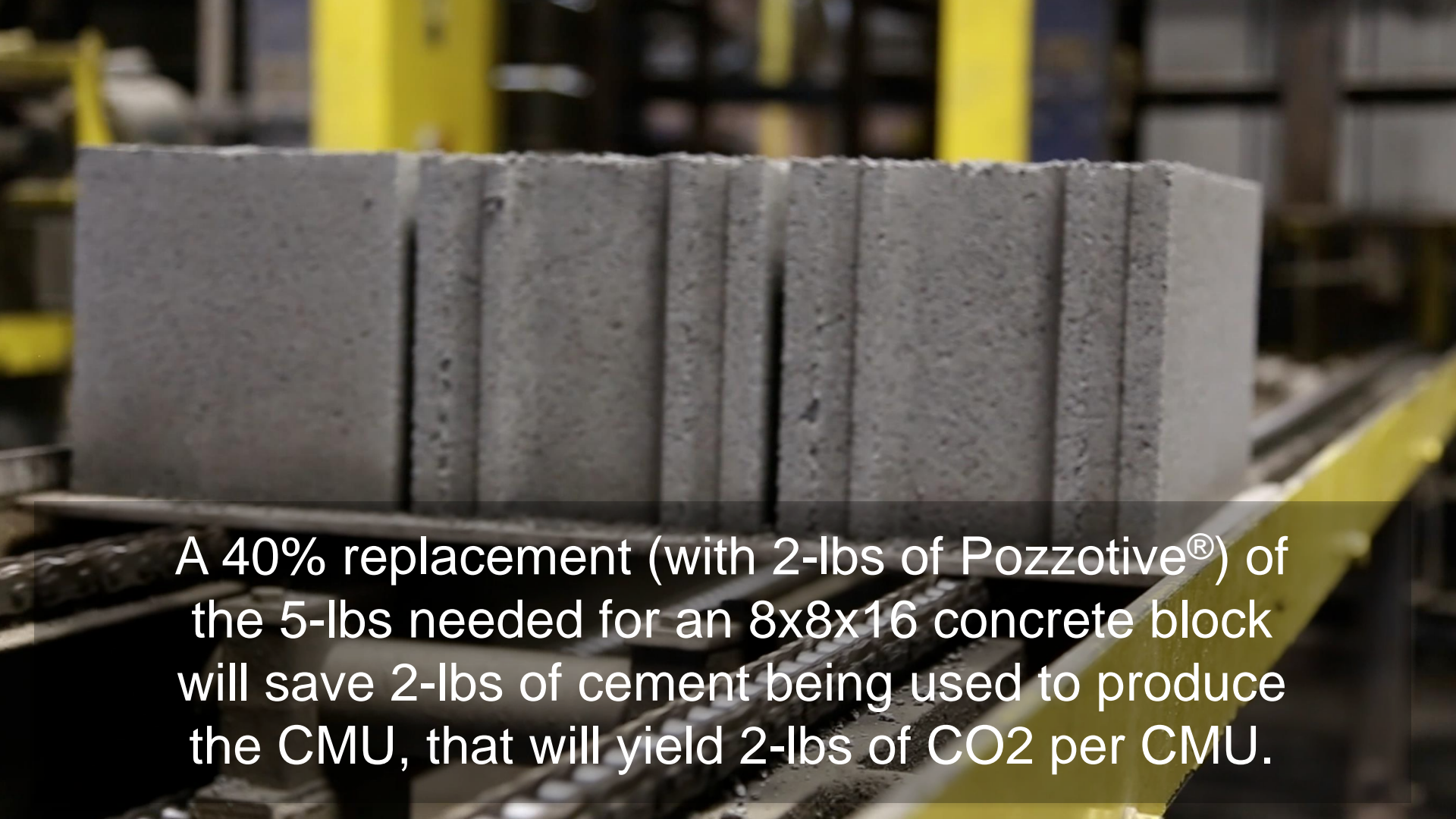
Pozzotive[®] can replace up
to 40% of cement.



1:1

**1 pound of cement generates
1 pound of CO2 gas emissions.**

According to USEPA*

A row of grey concrete masonry units (CMUs) is shown on a production line. The units are rectangular with a textured surface and are arranged in a single row. The background is slightly blurred, showing yellow structural elements of the factory. A semi-transparent dark grey box is overlaid on the bottom half of the image, containing white text.

A 40% replacement (with 2-lbs of Pozzotive[®]) of the 5-lbs needed for an 8x8x16 concrete block will save 2-lbs of cement being used to produce the CMU, that will yield 2-lbs of CO₂ per CMU.

A photograph showing a massive pile of broken glass bottles, likely beer or soda bottles, at a landfill site. The bottles are scattered across the foreground and middle ground, with some still in their original shapes and others crushed. In the background, there are large mounds of earth and other waste materials, typical of a landfill. The sky is overcast.

8.4 million tons of glass are brought to landfills each year.

A photograph of industrial machinery, likely a shredder or grinder, featuring a large yellow flywheel and blue structural beams. The scene is set in a factory or industrial facility.

Pozzotive® creates an opportunity to transform waste into a valuable resource to manufacture SHPC products.

75 pounds of waste glass are generated per person annually.

With the opportunity to tap into all existing landfill glass, as well as glass generated every year, the feedstock for Pozzotive[®] is available in abundance.



LEED

Pozzotive® products contribute to LEED budgets for:
Materials & Resource Credit 4, Recycled Content
Materials & Resource Credit 5, Regional Content

Pozzotive[®] Advantage

- Fights climate change
- Curbs greenhouse gas emissions
- Diverts glass from landfills
- Supports local economy
- Contributes to LEED budgets
- Contains no harmful heavy metals
- Reduces need for virgin mined materials
- Performs credibly & responsibly



Pozzotive[®] meets or exceeds
all ASTM C-618 testing.

Pozzotive® Use



Specified By

PERKINS+WILL

GRIMSHAW



AECOM

HAZEN AND SAWYER
Environmental Engineers & Scientists

DattnerArchitects

KINGSTON
BLOCK & MASONRY SUPPLY, LLC



Green NYC





Questions?

