

FILTERCRETE™

“a pavement material that filters
just as natural grass does”



Ozinga

GREENBUILDING

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TITLE: Ozinga - Green Building – Filtercrete Pervious Concrete Pavement
Not just a pavement - a Stormwater Management System

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DESCRIPTION: Filtercrete Pervious Concrete, Not just a pavement, but a stormwater management system.

Filtercrete pervious concrete is a structural pavement is a US EPA approved BMP that eliminates stormwater runoff, cleans stormwater and infiltrates the clean water into the ground. Filtercrete also fights urban heat island due to it's light reflective surface reflecting sunlight, (Albedo can exceed .29). Filtercrete pervious concrete allows water to evaporate through the pavement, (evapotranspiration), and it is tree friendly allowing air to the roots, and protecting them from damage, and allowing every parking lot to look like an orchard. The number one source of water pollution in many watersheds in the US today is stormwater runoff from pavement. Filtercrete pervious concrete can mitigate the pollutants naturally through filtration, microbial conversion, and chemical bonding. The urban heat island is created largely by black pavements, (typically 60% of surface area in an urban environment), and roofs, (typically 25% of surface area in an urban environment). Filtercrete can help resolve both problems simply with your parking lot design, and have a safe surface, (no puddles, black ice or potholes) that requires less lighting (up to 30% less) and allows more trees to thrive and cover the entire lot with a healthy green canopy of trees, further cooling the area.

Presentation includes: Introduction to Filtercrete Pervious concrete, what is it, brief history, benefits, comparison to conventional stormwater BMP's.

Design & construction of pervious concrete systems. Recent research and project information. Q & A session after. Samples available to view including colored samples, and a fountain demo with water flowing through the material.

OZINGA CONCRETE

Ozinga is an 85 year old local family owned company who takes stewardship of our Earth Seriously. Ozinga makes concrete that is 100% recycleable, 100% local, and we use recycled materials from Steel production and Coal powerplants to replace some of the cement used to make concrete. Concrete lasts much longer with less maintenance than other pavements, and that save vital resources and money. We also make a very exciting and very 'green' sustainable concrete called Filtercrete pervious concrete.

Ozinga's Filtercrete pervious concrete has been called rice-crispy concrete because of its appearance and the concrete that drinks, because of what it does with stormwater.

Filtercrete can be used for sidewalks, bike trails, driveways, parking lots, local streets and alleys. Filtercrete allows rainwater to filter through the concrete pavement and into the soil, filtering out 90% of the pollutants on the way, and because the water goes into the ground, it does not add to flooding or erosion problems but helps our groundwater to be recharged with clean water.

The City of Chicago uses Filtercrete in its Green Alley program to fight stormwater flooding and also to fight the Urban Heat Island. The Urban Heat Island develops when the temperature in an urban area is much higher than in surrounding rural areas. Dark pavements and roofs absorb heat from the sun and radiate it into the air. Filtercrete is a light color so it does not add to the Urban Heat Island. Filtercrete actually helps cool the air because it allows water to evaporate from the soil below, and because it allows air to get to the roots of the trees, it helps trees grow healthier, longer, and grow larger, providing shade to the parking areas.

Filtercrete helps fight global warming by absorbing Green House Gases too. So next time you are considering construction of a pavement at home, at work, at church, or in your community, ask for Filtercrete pervious concrete. You may find out more at www.OzingaGreenBuilding.com

