

# **FILTERPAVE™** *porous pavement system*

PRODUCT CATALOG

*our commitment:  
providing the highest quality  
products/solutions*



**FILTERPAVE™**  
powered by Geosystems® technology

*setting the green standard in hard-surfaced porous pavements*

# FILTERPAVE™ porous pavement system

The aesthetically-pleasing, hard-surfaced, recycled glass porous pavement system that actively filters stormwater and has the ability to adsorb hydrocarbons.

The FilterPave™ porous system offers unique advances over traditional hard-surface pavements, addressing today's environmental issues and stormwater management requirements in an attractive and cost-effective way.

## BEAUTY

The FilterPave™ system is a colorful mosaic of structurally-sound, highly permeable glass aggregate that provides an architecturally appealing, hard-surfaced, porous pavement system that is as safe as any traditional surface on which to walk or drive.

## RECYCLED

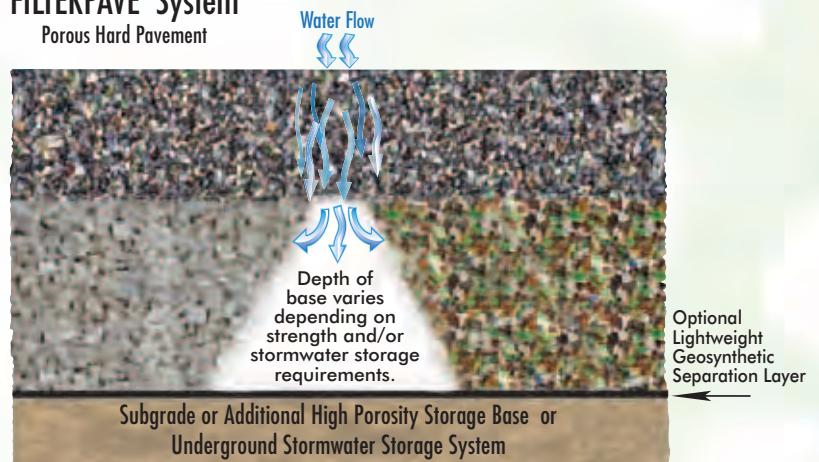
The FilterPave™ system makes productive use of plentiful 100% post-consumer recycled glass. The recycled glass is solidified with a high-strength, flexible bonding agent, made primarily from natural materials safe for marine and plant life.

## STORMWATER FILTER

The FilterPave™ system is a natural LID-BMP for managing stormwater. This strong, attractive, porous pavement system also has the ability to **adsorb** hydrocarbons that leak from automobiles (e.g. engine oil, transmission fluid). Biological processes can then be introduced to reduce these hydrocarbons to harmless by-products, further reducing pollution.

## FILTERPAVE System

Porous Hard Pavement



## ENVIRONMENT

The glass particles are collected from recycling facilities and specially processed to round the edges. Utilizing the abundant supply of recycled glass in a constructive way eliminates landfilling of the materials and thus conserves natural aggregate supplies and reduces mining efforts.



## environmental benefits

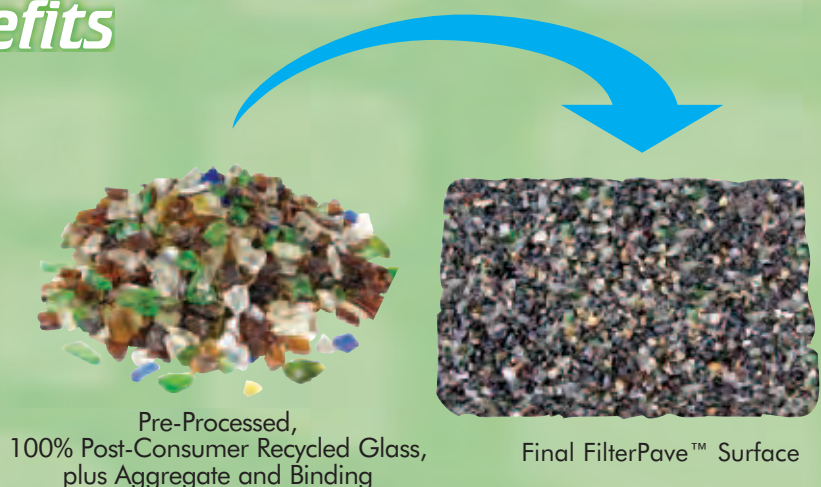
### USE OF RECYCLED MATERIALS

The complete FilterPave™ system uses a high percentage of recycled materials:

- The pavement material utilizes abundant 100% post-consumer recycled glass, bonded with a safe polymer binder.

### HIGH PERMEABILITY

The FilterPave™ pavement is a hardened surface with porosity comparable to open-graded base course (OGBC).



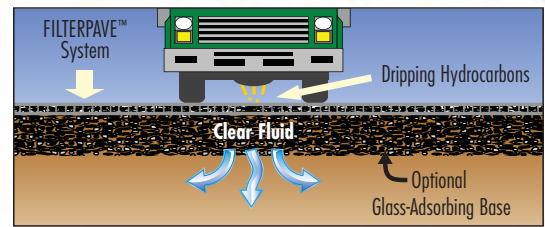
# FILTERPAVE™ *unique features*

## ARCHITECTURAL AESTHETICS

Decorative recycled glass infill provides higher aesthetic appeal than conventional asphalt or concrete pavements.

## CAPTURES HYDROCARBONS

- Specially processed glass base removes oil products from surface runoff; reduces non-point source pollution.
- Patented glass production technique **adsorbs** hydrocarbons and retains them to allow for biological digestion. Testing at University of Wisconsin demonstrated up to 15 oz. (425 g) of oil retained per cu.ft. of glass.



## STRUCTURAL STRENGTH

- High-strength material with low maintenance requirements.
- High compression, shear strength and flexural modulus.

## FLEXIBILITY/DURABILITY

- High-porosity and **high-strength flexible binder** minimizes freeze-thaw effects.
- High hardness, glass aggregate offers high-friction wearing surface.



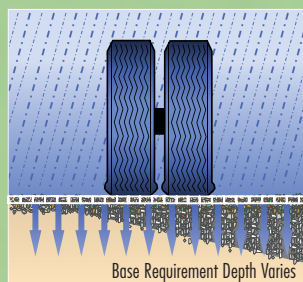
## USGBC LEED® GREEN BUILDING CREDITS

### LEED® CREDIT CATEGORIES

- **Reduced Site Disturbance:** by creating permeable surfaces and natural stormwater detention facilities.
- **Stormwater Management:** by using permeable surfaces that provide stormwater infiltration and reduce stormwater runoff.
- **Heat Island Effect:** by creating a cooler surface with an open-grid pavement system.
- **Recycled Material Content:** by using materials with recycled content to reduce impacts from extraction and processing of new virgin materials.
- **Regional Materials:** by using materials within 500-mile radius of source (if applicable).

## REDUCES STORMWATER RUNOFF

With one of the industry's highest porosity ratings, the FilterPave™ system allows stormwater to quickly percolate into the ground, reducing undesirable surface runoff.



## REDUCES LAND SPACE REQUIREMENTS AND COSTS

Porous pavement with natural infiltration and reduction of stormwater runoff:

- Minimizes use of valuable land space and costs associated with requirements for on-site stormwater detention/retention ponds.
- Reduces the need for structural stormwater collection and discharge systems, allowing the use of smaller, less expensive discharge pipes.
- Complements underground stormwater storage systems.

# system versatility and performance

## COST-EFFECTIVE VS. CONVENTIONAL HARD-SURFACE PAVING

- Minimal Maintenance Requirements: No resealing, crack filling, grinding and resurfacing as required with other hard surface pavements.
- Porous systems significantly reduce the need for road salt in winter conditions and the resulting negative impact on aquatic life. (Reference University of New Hampshire Stormwater Center 2007 Annual Report.)

## PAVEMENT LIFESPAN

- The anticipated lifespan of the **FilterPave™** system exceeds other porous pavement systems, which are prone to loss of structural integrity as a consequence of fines removal from the design mix.

## applications

The **FilterPave™** system is ideal for access roads, parking lots, pedestrian patios, driveways, sidewalks and trails/walkways.

## COLORED FILTERPAVE™ OPTIONS

- Standard multiple-colored glass varies by region; optional color enhancements are available.
- Color accents can be added to match buildings or environment.



## PRESTO GEOSYSTEMS' COMMITMENT — To provide the highest quality products and solutions.

Presto Geosystems is committed to helping you apply the best environmental solution to your porous pavement requirements. Contact Presto Geosystems or our worldwide network of knowledgeable distributors/representatives for assistance and information on our leading-edge porous pavement solutions.

Successful implementation of the **FilterPave™** system combines a proper mix production, construction and installation—all of which can be achieved with certified contractors and construction supervision.



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**Patents Pending for the FilterPave™ System.**

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