



**FILTERPAVE®**



# FILTERPAVE®

Water-permeable pavement

Your contribution to conservation of resources

 **SOILTEC**  
GEOSYSTEMS





FilterPave® is a very resilient, water-permeable and open-pored surface covering produced from structure resistant aggregate. With its high stability, an extraordinary filter effect (rain water), and the ability to bind pollutants such as engine oil, fuel residues or hydrocarbons, Filter-Pave® makes a valuable contribution to active resource protection.

This innovative and eco-friendly pavement provides planners and developers considerable design freedom. It is available in many colours and can be shaped at will. With FilterPave® you can create ideal surfaces for footpaths or driveways, parking spaces and garages; appropriate for the environment, the building or the terrain.



**An ecologically viable alternative  
for your paths and spaces**

**100 %  
RECYCLED  
WASTE GLASS**

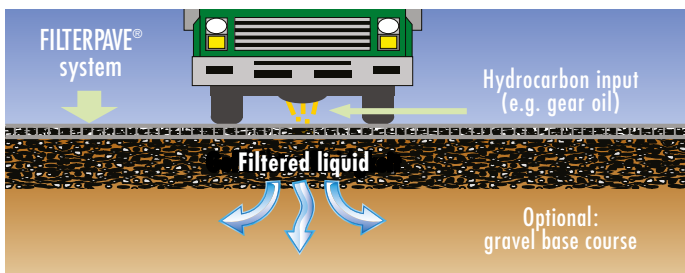


If you are looking to make a lasting contribution to preserving our environment, you should consider the FilterPave® system for the layout and design of driveways, bike paths, public places and parking spaces.

FilterPave® consists of 100 % recycled glass (post-consumer waste glass). Following the addition of an elastic and highly resistant elastomer adhesive, this forms a hard wearing pavement safe for the environment and groundwater.

Its ecological functional characteristics help to prevent clogging and meet the challenges of responsible rainwater management.





## **FILTERPAVE®** **Strategic soil conservation**

When laying the FilterPave® system, prepared recycled glass is placed on site with an environmentally friendly multi-component adhesive.

Stormwater easily enters the subsoil, thanks to the open-pored glass gravel structure.

Stormwater is "filtered" as it moves through the recycled material. Like a filter, the FilterPave® system absorbs hydrocarbons, residues from engine or gear oil and fuels. Tests have revealed that up to 15 kg of oily substance can be bound per cubic meter of FilterPave® (research by the University of Wisconsin).

In less permeable areas or low-lying environments where large amounts of water can quickly accumulate, the water drainage feature of the FilterPave® system can be supported by a substructure or by an additional storage/drainage system made from open graded base course.

The service life of the FilterPave® system is comparable to that of other open-pore systems. The material properties of the FilterPave® system do not change during its service life.

Depending on the UV-irradiation and wear requirements the FilterPave® system can be recoated with a thin abrasion protection layer to refresh the system after five to ten years.



Using the material of the FilterPave® system helps to conserve natural resources, due to the fact that it reduces the production and use of new building materials.

## Reusability for residential areas

### Excellent structural stability

The high degree of hardness of the recycled FilterPave® forms a highly durable and stable ground cover, which, thanks to its great porosity and the flexible multi-component adhesive also possesses a high degree of elasticity.

Depending on the traffic load and the existing subsoil, the FilterPave® system is installed in a thickness of approximately 3 to 4 cm on a porous 20 to 30 cm thick layer of crushed stone. If a value of less than 15 MN/m<sup>2</sup> is recorded on the subsoil, additional measures to improve load-bearing capacity will be necessary. Private access roads, driveways or paths for pedestrians do not need any additional base course.







## CONSERVING RESOURCES

The environmentally friendly FilterPave® system allows near-natural rainwater infiltration onto stable and firmly fixed surfaces.

It is a sustainable approach that compensates for the negative consequences of construction of impervious systems.



## USGBC LEED® GREEN BUILDING CREDIT

- **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 a porous pavement system.
- **Recycled Material Content:** by using materials with recycled content to reduce impacts from extraction and processing of new virgin materials.
- **Region Material:** by using materials within a 500-mile radius of source (when applicable)

Open-faced, healthy groundwater, stable surfaces. In addition to the use of recycled materials, FilterPave® makes a valuable contribution to environmental protection in a variety of ways.

## Rainwater management with the FILTERPAVE® system

### Stormwater permeability

The stormwater permeability of the FilterPave® system is similar to the seepage performance of an open-graded base course. Rainwater is absorbed quickly and can seep directly into the ground or be redirected into the drainage facilities (e.g. canal, retention basin, or rain water storage vessel).

### Easing the burden on drainage systems

With FilterPave®, higher-level drainage facilities are relieved by the storage effect and the favourable run-off coefficient (reduced surface runoff).

### Surface de-sealing

Thanks to its open-pored structure, the FilterPave® system reduces surface runoff, (Covering Class 4) permitting the use of smaller drainage features.

### Pollutant bonding / degree of absorption

The FilterPave® system, with its filter effect, not only permits near-natural rainwater infiltration, it also absorbs hydrocarbons such as engine and gear oil and fuel residues. The structure of the FilterPave® system prevents the spread of oily substances on the surface and reduces the risk of large-scale contamination. Biological processes, such as the conversion of hydrocarbons into harmless by-products, can be positively influenced.

### Sustainability

FilterPave® does not require any further sealing for 5 to 10 years. Similarly, the risk of freeze-thaw damage and the need to repair cracks and replace wear courses is very greatly reduced when compared to conventional pavements. Like other open-pored surfaces, FilterPave® helps reduce the need for road salt when there are frozen ground conditions.

## Maximum design freedom in terms of colour and shape

The FilterPave® system consists of structurally stable aggregate with a multi-coloured mosaic look. Compared to conventional asphalt or concrete surfaces, this decorative pavement made from recycled glass opens up attractive design options.

The multi-coloured recycled glass gravel may vary by region, resulting in different colour effects. In addition, when other additives

(pigments) are included, the appearance is changed by the different hues so that it can be ideally adapted to the building or the surrounding area, as well as to meet special design requirements.

FilterPave® is also superior to many other flooring materials in terms of design possibilities thanks to the seamless way it can be placed. FilterPave® lets your creativity run wild.

### Colours

The FilterPave® system is available in the following six different hues.



Amber Brown



Sapphire Blue



Jade Green



Topaz Brown



Sedona Red



Natural Blend





**FILTERPAVE®**

EUROPE • AFRICA • MIDDLE EAST  
ASIA • AUSTRALIA

SOILTEC GmbH  
Neue Finien 7a  
D-28832 Achim, Germany

Phone: +49 4202 7670-0  
Mail: [filterpave@soiltec.de](mailto:filterpave@soiltec.de)  
Web: [www.filterpave.de](http://www.filterpave.de)

AMERICA

FILTERPAVE® Products LLC.  
555 Green Meadows Rd, Suite 9  
Columbia, MO 65201, USA

Phone: +1 573 228 9025  
Mail: [info@filterpave.com](mailto:info@filterpave.com)  
Web: [www.filterpave.com](http://www.filterpave.com)

DISTRIBUTED BY

FILTERPAVE® LTD.

Allens West  
Durham Lane  
Eaglescliffe  
TS16 0RW  
Phone: 01642 783320  
Fax: 01642 888699  
Mail: [sales@filterpave.co.uk](mailto:sales@filterpave.co.uk)  
Web: [www.filterpave.co.uk](http://www.filterpave.co.uk)