

## PRODUCT INFORMATION

# GeoPaveX STANDARD

## Resin System for Bound Aggregate Paving

### Description

GeoPaveX Standard is a two-component polyurethane resin system formulated for use in resin bound aggregate surfacing systems.

Resin bound aggregate surfacing systems combine durability and performance with a stunning appearance. Their use will transform the visual appeal of any surface and the wide range of colours and textures available from natural and manufactured aggregates give the specifier many options in designing the built environment.

### Uses

GeoPaveX Standard is manufactured for use as the binder within a resin bound aggregate paving system. It is suitable for both external and internal use.

Areas of use include driveways, heritage sites, estate roads, parking areas, footpaths, cycleways, courtyards, pathways, public parks, pedestrian precincts, office buildings, landscaping schemes, schools, walkways, tree pits, patios, conservatories, garden design, playgrounds, swimming pool surrounds, disabled access ramps, roof terraces, and balconies.



GeoPaveX is suitable for use over typically encountered load bearing substrates such as asphalt and concrete.

### Benefits

- Highly attractive surfaces
- Suitable for use with wide range of different aggregate blends
- Permeable - 10Gal/Min/SF for Rainwater Management
- Environmentally friendly, biomass-based resin component
- Highly durable and resistant to cracking
- Smooth, easily maintained surface
- No loose stones, restricts weed growth
- Solvent free, so odour free before and after installation
- External or internal use
- Standard and UV resistant grades available
- Adaptable curing times using optional catalyst
- Unique hybrid thermoset resin binder

Technical	Standard
Specific gravity – mixed resin	1.04 kg/l (7.5 lb-ft)
Mixed resin pot life @ 20°C (approx)	25 minutes
Initial set @ 68°F	40 minutes
Full cure in bound system @ 68°F	24 hours
<b>Spread Rate (approx. per 220lbs of typical aggregate, assuming bulk density of 1.67)</b>	
12 mm surface depth (0.5")	4.99 m <sup>2</sup> (53 SF)
18 mm surface depth (0.75")	3.32 m <sup>2</sup> (35 SF)
25 mm surface depth (1")	2.39 m <sup>2</sup> (25 SF)

### SUDS

Sustainable Urban Drainage Systems (SUDS) is the name given to the relevant UK Government legislation that came into effect in October 2008. Surface water needs to be removed, particularly in built-up areas, to prevent flooding. SUDS are surface water and drainage management methods and actual devices designed to tackle excess water in a sustainable and economical way compared to conventional systems.

GeoPaveX Standard has been developed as a SUDS compliant permeable system allowing on average 10/Gal/Min/SF of water to soak through the surface, helping prevent the rapid surface water runoff that causes flooding.

Typical base build ups are set out in our separate Base Build-Up Specification sheets.



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866.367.3232 | [info@CompleteStreetsUSA.com](mailto:info@CompleteStreetsUSA.com)

# PRODUCT INFORMATION - GEOPAVER STANDARD



## Tree Pits

GeoPaveX Standard provides the ideal solution to problems commonly associated with open tree pits and metal tree grills, such as litter and waste, trip hazards, weeds and vandalism.

GeoPaveX Standard is a fully permeable product which allows water to pass through to the roots of the tree without the need for watering tubes, whilst at the same time providing an attractive surface which is flush with its surroundings and which prevents the harbouring of litter and other debris. It creates a hard wearing, natural finish that compliments any environmental improvement design.

## Colors

GeoPaveX Standard resin is a neutral amber color and is particularly suitable for buff, yellow, red and brown aggregates. Some initial darkening of the resin binder may occur through the effects of sunlight in the early life of the finished system. This slight darkening can often be complimentary to the aggregates used.

GeoPaveX UVR, a premium grade which is more resistant to the fading or discolouration which may arise from the naturally occurring effects of ultraviolet waves within sunlight.

Colors, shades and textures achievable from the finished system result from the combination of the aggregate and resin binder system used. A blend of aggregates is typically chosen to give the correct strength and cohesive matrix, as part of this the aggregate size can be as much as 1" for tree pits. We supply a range of suitable aggregates selected for their appearance, color and performance.

## Aggregates

Natural aggregates such as gravel, flint, quartz, granite and marble can be used to enhance your design. Other special materials such as certain types of glass, plastics, rubbers and crushed ceramics can also be used. Where it is important to maintain the initial color we recommend that GeoPaveX UVR grade is used in conjunction with such materials. If considering using special materials, please call for further advice prior to use.

We supply aggregates that have been specifically selected for use in GeoPaveX Standard. You may choose to independently source aggregates elsewhere but when doing so, it is essential that they are dry and free from dust, silt, clay or any other foreign material, as these will seriously affect the ability of GeoPaveX resin to form a bond with the aggregate. It is also important to ensure that the aggregate grading is suitable for the installation.

## Mix Designs

The ideal aggregate blends for use with GeoPaveX Standard resin are those of a yellow, buff or dark color where the known darkening of the resin binder will have little visible effect. For light colors GeoPaveX UVR grade may be more appropriate.

The final strength of a resin bound aggregate surfacing system using GeoPaveX resin is determined by the choice of resin, aggregate (and its grading) and degree of compaction during installation. The installer must satisfy himself that the proposed mix is suitable for the intended use. A combination of two or more aggregate grades should be used to achieve a cohesive mix. Where greater strength is needed, a more graded mix using three or more aggregates may be necessary. If so, the percentage binder content may need to be higher to compensate for the increased surface area of the aggregate.

Complete Streets USA offers a range of standard aggregate blends suitable for use with GeoPaveX Standard. Our aggregate range is periodically updated so please contact us for details of the blends that are currently offered.

Additional skid/slip resistance may be achieved by the light broadcasting of suitable grades of fine high PSV and A V materials onto the surface of the resin bound aggregate paving system while it is still wet and before its initial set, these additional skid/slip resistant materials should be harmonious with the appearance of the aggregate in the GeoPaveX system.

Call us with questions about aggregate selection and additional slip resistance.

## Application

The procedures set out in our separate GeoPaveX Installation Specifications Method Statement should be followed carefully to ensure the correct application of GeoPaveX. Complete Streets USA can recommend an experienced resin paving contractor or provide application training.

## Performance and Aftercare

The final resin bound aggregate surface requires minimal maintenance. To maintain the appearance of the surface, regular sweeping should be undertaken using a stiff brush to keep it clean and free from leaves/debris and loose aggregate. Mechanical brushes using steel bristles must not be used. Where it is necessary to remove stains caused by oil spillages, domestic detergents or degreasers may be used with care. The use of cold pressure washing may be used to remove ingrained dirt etc, however close contact high pressure water jetting should be avoided.



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# PRODUCT INFORMATION - GEOPAVE<sub>x</sub> STANDARD

While resin bound paving using GeoPaveX Standard resin is and resistant to deformation, it is important to ensure that the surfaces upon which it is laid are free from defects and faults, and are capable of withstanding the effects of expected loadings during both summer and winter conditions.

Any spillage of fuel or solvents must be cleaned by the appropriate methods as soon as possible.

## Packaging and Storage

Each pack consists of two components, comprising a base and an activator component in sealed containers. GeoPaveX Standard is currently supplied in a 14 lb pack size designed for a typical 220 lb aggregate blend, however the appropriate ratio of aggregate to resin binder that should be used will depend on the nature of the aggregate being used, its bulk density and surface area.

For Tree Pits, smaller packs are available which contain 9 lb of total resin binder.

Store all materials under cover in dry conditions. Do not allow extreme temperature fluctuations.

If Activator components (Part B) are stored at very low temperatures, crystalline deposits may form within it. The Activator must not be used in this condition. However, an Activator that is affected in this way, can be warmed and allowed to remain at room temperature 68°F. The crystalline deposits should dissolve leaving a clear brown liquid once more.

Shelf life is normally 12 months in the above storage conditions.

**Important: Under no circumstances should damp aggregate be used.**

## Health & Safety

See separate Safety Data Sheet



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