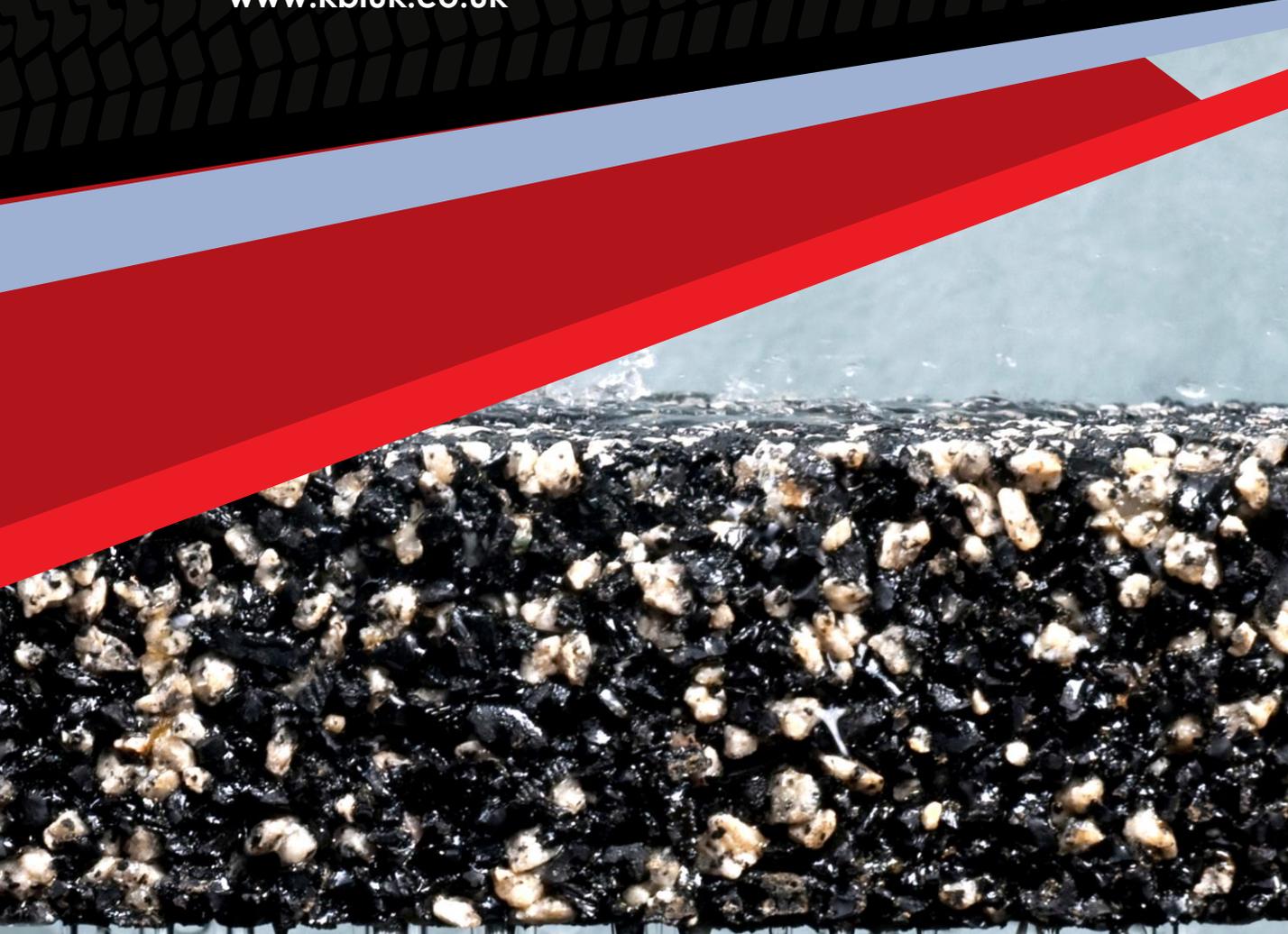


Sustainable Porous Paving Solutions

www.kbiuk.co.uk



General Information Brochure

flexipave

About KBI UK Ltd

KBI was founded in the USA over 15 years ago. Its mission was to utilise high volumes of waste tyres through the design and engineering of innovative products and solutions that could be applied in commercial, residential, industrial and local authority scenarios. Vast amounts of the worlds used car tyres are sent to landfill or used to fire incinerators for power-derived fuels.

KBI UK Ltd was formed in 2010 to provide, supply and install the products manufactured using the KBI Flexi™-Process to the UK market. With many local authorities looking for greener ways to re-generate traditionally paved or urbanised surfaces, combined with commercial contractors looking to develop sustainable urban drainage systems, the materials generated using the KBI Flexi™-Process have become firmly established across a broad spectrum of construction sectors.

KBI Flexi™-Pave

The grinding down of used car tyres results in 3-6mm rubber granules that form the basis of the product KBI Flexi™-Pave. The rubber granules are mixed with multi-faceted 3-6mm stone granules and a unique specialised bonding agent. Once mixed, the product is moisture cured and ready to use within 24 hours.

The resulting material is:

- Extremely Flexible.
- Highly porous allowing natural drainage.
- Non-cracking even in freeze/thaw conditions.
- Slip resistant due to the rubber content.
- Impact absorbent and able to withstand vehicular use up to 80 tons.
- Self-cleaning – will not silt up.
- Sustainable, using three recycled tyres per m².
- Sensitive to nature & water bodies – removes phosphates/nitrates.

KBI Flexi™-Stone

KBI Flexi™-Stone is a decorative porous paving system. It is available in two formats:

- KBI Flexi™-Stone HDST 50 – installed in one part at 40mm directly on to a stone sub-base.
- KBI Flexi™-Stone HDST 25 – installed in one part at 20mm directly on to an existing tarmac or concrete.

Both trademarked formats require a nominal 2-6mm aggregate and are bound together using KBI's proprietary binding agent XFP78. The products are solely sourced and installed by KBI UK Ltd.



University Road, City of York Council

In late 2014, KBI UK undertook a major engineering project for the City of York Council that saw the creation of a major new cycle route alongside University Road. The project was met with approval from all parties, with several surrounding sections of footpath and traffic island all re-laid using KBI Flexi™-Pave. To date this was the largest engineering project that KBI had undertaken, showing our capacity to handle such contracts.

Tree Surrounds



Whitehall, Westminster

Although there are many factors involved in healthy tree growth, root access to air & water, unrestricted root growth, protection from soil compaction and protection from extremes of temperature are key. The porosity of KBI Flexi™-Pave allows water and air to easily reach tree roots and prevents issues caused by standing water. It's flexibility allows tree roots to move and grow without the top surface cracking or deviating. The rubber element of the material helps to insulate from heat and cold, whilst it also creates an excellent footpath that can also cope with vehicular use.

Trails/Woodland Paths

"When constructing pathways in a woodland location you have to consider the potential damage that can be caused to the tree root system. KBI Flexi™-Pave ticked all the right boxes when it came to the installation as it required minimal excavation. The other major benefit is that the system negates the requirement for a separate edging, avoiding additional excavation and saving on material. Using KBI Flexi™-Pave, the installation team achieved a path with a smooth flowing curve that meanders harmoniously through the woodland, which was perfect in the context of the location."



Normanby Hall, North Lincolnshire

Peter Beschizza, Landscape Architect

Footpaths/Courtyards



Gedling Homes, Foxhill Court

KBI UK has worked extensively across the UK with major organisations like Bromford Housing Group and Gedling Homes to help transform footpaths and yard areas within new build and existing housing stock. The use of KBI Flexi™-Pave has reduced maintenance bills, improved the look of the properties and eliminated standing water. New build developers looking to meet SUDS requirements benefit from the material, as do property owners looking to reduce their water rates by cutting down on man-made drain usage.

Car Parks



Ashgate Primary School, Derby

Car parks can be extremely susceptible to standing water and rely heavily on storm drains to remove excess rainwater. Should the drains fail to cope, access immediately becomes difficult, causing all sorts of problems.

Using KBI Flexi™-Pave on car parks has a huge impact. It eliminates standing water by allowing rainfall to pass directly through it and straight in to the natural ground below. This also reduces the reliance on storm water drains, which in turn has a positive effect on the water rates paid by the land owner or tenant.

Golf courses are another facility that can be greatly affected by standing water. However, more often than not it's not the tees, fairways or greens that are affected, it's the access paths around the course.

KBI Flexi™-Pave has been used to great effect by several golf clubs that have sought to improve the look of the course, reduce the issues of standing water and improve drainage. Another benefit to the material is the reduction in noise levels when walking on it or using vehicles, reducing any disruption to players.

Golf Paths/Buggy Paths



Bloxwich Park Golf Club

Green Partnership Scheme



The KBI UK Green Partnership is an innovative scheme that allows Local Authorities to purchase and install the unique KBI Flexi™-Pave material - for the specific use of tree surrounds - without the need to use KBI UK's own installation team.

By signing up to the Green Partnership scheme, a Local Authority is entitled to nominate two members of staff to undergo training on how to prepare, mix and install the KBI Flexi™-Pave material. Once the staff are trained, a local authority then simply needs to purchase the KBI Flexi™-Pave materials from KBI UK.

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