



Resin Bound Paving - GeoPave UVR

Product: *GeoPave UVR - Adbruf's resin bound surfacing system*
Project: *South Street Park - Sheffield - Steps from the Station to South Street*

Client: *Sheffield Development Corporation*
Principal Contractor: *G F Tomlinson & Sons Limited - www.gftomlinson.co.uk*
Sub Contractor: *Woodroyd Contract Services Ltd - www.woodroyd.co.uk*

Background

In 2005, Sheffield City Council asked local residents about their ideas for the development of a new city park called Sheaf Valley Park. The vision was to form a series of linked, quality, open spaces and pathways from Park Square roundabout through to Norfolk Park.

The Master Plan for the park provided a guide for the future, so that the development could happen section by section as more funding became available.

The first stage of work began in September 2010 in South Street Open Space.

It included creating a direct stepped path from South Street to the Railway Station tram stop. While this was being created, earth would be moved to form a level space for events, with a series of seating terraces above where people could enjoy views of Sheffield City Centre and beyond.



Design Brief

The architect's design brief was to transform the area to include gradual steps that were functional, yet attractive in appearance.

An essential part of the project was the surfacing of the steps. It needed to be durable, to blend in with the natural surroundings and to look modern, adding a contemporary feel to the park.

The architect was keen to use a product that complimented the steel railings and treads and that provided an alternative to dull lifeless concrete.

The specified surfacing material had to have a flat even surface that was durable, low maintenance, easy to install and environmentally friendly.

Solution

The architect had designed the flight of concrete steps with risers made out of steel.

Woodroyd Contract Services Ltd offered the principal contractor G F Tomlinson & Sons Limited both Resin Bound and Resin Bonded Surfacing Solutions.

The steel risers were designed to be 12mm higher than the concrete tread to allow for the placing of a 50mm wide high friction strip and then either Resin Bound or Resin Bonded surfacing over the rest of the tread.

At a site meeting with G F Tomlinson & Sons Ltd, Woodroyd Contract Services Ltd suggested that the preferred resin surfacing system in this situation would be GeoPave, as to achieve the required levels of the step the treads would have to be built up to the same level as the steel edging if a resin bonded surfacing system were used.

This would not only impact the cost of the project but also would have affected its appearance with the step and edging not being completely flush with one another.



Installation

The principal contractor G F Tomlinson & Sons Ltd were responsible for the delivery of the whole project employing Woodroyd Contract Services Ltd as their specialist sub contractor to carry out the installation of the resin bound surface GeoPave.

Woodroyd was established with the aim of providing a high quality sub-contracting service to main contractors requiring floor screeds, resin bound and bonded aggregate surfacing systems and also under floor heating.

On the South Street Park Project, GeoPave UVR was used to provide an attractive and aesthetically pleasing durable paving system. Adbruf's Rustic Gold blend was used in conjunction with GeoPave UVR resin. As Rustic Gold is a lightly coloured blend, Woodroyd recommended using GeoPave UVR resin, a UV stable resin.

The material was laid 20mm thick on a clean, dry, contamination free base of concrete.

The two component resin mix provides the binder; the components are blended thoroughly until homogenous. A suitable mixer is then charged with the selected aggregate; the resin is added and mixed until the aggregate is fully coated. Finally, the mix is transported to the application area and then trowel applied. The system is then allowed to cure.



Product Details

GeoPave UVR is a trowel-finish, resin bound paving system that is available in a wide range of natural aggregate blends.

GeoPave UVR provides a smooth, attractive, UV stable and hard wearing surface. The system can overlay existing surfaces such as asphalt, concrete and other stable substrates, and is also ideal for new build projects.

Uses Include:

Access roads, driveways, landscape schemes, footpaths, patios, steps, flat roofs/balconies, tree pits, new developments and as part of a SUDS system.



Client's Comments

Sheffield Development Corporation are pleased and are considering a further 1,000m² of Adtex in the same aggregate to roads and paths within the park.

Jim Harte - Woodroyd Contract Services Ltd

"We are delighted with the end result and are looking forward to hopefully working on the next phase. Adbruf's GeoPave UVR is an attractive alternative to traditional surfacing systems that has really enhanced this particular project."