



## Resin Bound Paving - GeoPave

- Product:** *GeoPave - Adbruf's resin bound surfacing system*
- Project:** *Clifton Park, Rotherham. Surrounds to new children's paddling pool and water park.*
- Client:** *Rotherham Borough Council*
- Architect:** *Andrew Cottage - LDA Design - [www.lda-design.co.uk](http://www.lda-design.co.uk)*
- Principal Contractor:** *UCS Civils*
- Sub Contractor:** *Woodroyd Contract Services Ltd. - [www.woodroyd.co.uk](http://www.woodroyd.co.uk)*

## **Background**

Clifton Park in Rotherham has undergone a long overdue restoration updating and repairing the Memorial Garden, Cenotaph and Rock Garden, restoring the bandstand, improving pathways, restoring entrances and introducing a new management/community building.

The play facilities within the park have also been improved including a new play scheme funded by the Department of Children, Schools and Families and a water play area funded by the Heritage Lottery Fund and BIG Lottery Fund. The water play area replaces a 70-year-old paddling pool. The idea behind the project was to create a series of fantastic play areas throughout the park and is in line with the new Play England guidelines. Different play zones have been created which take their inspiration from the character of the natural landscape and include an Enchanted Forest, Sand Dunes and Woodland Play.

The water park was created for all age and ability groups and was designed to include an array of water activities designed to engage children. It needed to be keeping with the rest of the park.



## **Design Brief**

The aim was to create a fun water play space for families and children. The new water feature has fountains that are controlled by jumping and moving, a flowing pool in which children are required to use their imagination to channel the flow of water and a pool to splash about in.

The designer Andrew Cottage from Landscape Architects LDA Design had the challenge to create a water play area that was in keeping with the natural setting and that was eco-friendly. As part of his overall design Andrew wanted a surface around the water play area that would not hold water, was permeable, slip resistant and which did not have the aggressive profile of bonded aggregate or loose gravel.



## **Solution**

Woodroyd Contract Services Ltd suggested using a resin bound system such as GeoPave manufactured by Adbruf Ltd. GeoPave is permeable allowing water to soak through the surface and is ideal for this type of project. GeoPave is also environmentally friendly as it is formulated using bio-mass materials and it is solvent free. GeoPave has no odour both during and after application which was also an important aspect to the project.

Natural aggregates ranging from subtle cream limestone to bold red granites can be used within a resin bound system meaning that Andrew could select an aggregate that enhanced the natural backdrop. GeoPave, once installed, creates a flat, even finish which was perfect for little feet.

Andrew chose Autumn Gold a natural light yellow shade of aggregate at 1-3mm in size, in conjunction with GeoPave UV Resistant (UVR) Resin.



## **Installation**

Woodroyd Contract Services Ltd was responsible for installing GeoPave around the water features. Woodroyd was established with the aim of providing a high quality sub-contracting service to main contractors requiring floor screeds, bound and bonded aggregate systems and also under-floor heating.

GeoPave UVR was laid at 16mm thick onto new open textured asphalt. A GeoPave installation can be carried out quickly and efficiently. First the two part, polyurethane hybrid resin system is mixed together, the resultant mix is then poured into a suitable mixer that has been pre-charged with the selected aggregate, in this case Autumn Gold. The resin and aggregate are then mixed until the aggregate has been completely encapsulated by the resin. This is then transported to the substrate via a polythene lined wheelbarrow and poured onto the application area. It is finally trowel finished to create a flat even surface and allowed to cure.



## ***Product Details***

GeoPave resin bound surfacing systems provide novel and attractive options for paving drive-ways, paths, roads, tree pits and internal floors.

GeoPave is available in a wide range of colours and textures and can incorporate blends of complementary or contrasting natural aggregates achieving striking effects.

GeoPave 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.



## ***Client's Comments***

***Jim Harte - Woodroyd Contract Services Ltd***

***"GeoPave was the perfect choice for this type of project due to its permeability. We loved the design of the Water Park, contemporary yet natural."***