



About Our Resins

Resin Bonded Surfaces are constantly seeking to improve all areas of our business. The purpose of this page is to provide our clients with useful information about our products. The resins we use have been specifically designed for the resin bonded & resin bound industry. It has taken four years of research & modifications to develop a formula which addressed the key issues within our industry in a positive way. Some of these issues are explained below.

Environmental

Historically the process of Water Management has been managed by nature. It has done this by rain water falling onto the ground which then seeps into the ground at the earth's natural rate before being filtered by rocks and sub-soils removing contaminants en-route to the water table.

In recent times manmade Water Management Systems have taken over and a greater urgency has been placed on moving water away from domestic & commercial premises as quickly as possible by means of the surrounding rivers & drains. Some of this water is collected then cleaned at water treatment plants before being returned into the system.

However the majority of this water which is usually contaminated with chemicals such as oil is often diverted away from towns and cities into local streams & rivers bypassing the cleaning plants. The knock on effect of this is slow but consistent damage and erosion of the environment we all live in.

The surfaces that Resin Bonded Surfaces Ltd supply and install go some way to restoring the historical method of water management & filtration. In the future as these surfaces become more commonplace the need for the amount of water treatment plants will be reduced & the amount of energy & chemicals used to clean water by the existing treatment plants will also be reduced.

Water Management is recognized by Governments around the world as being one of the most important and challenging issues facing the planet.

Resin Bonded Surfaces is continually reviewing how we can reduce our impact on the environment.

- The resins we use are Biomass, made from sustainable agricultural sources. Many of our competitors resins are made by processing various chemicals with petrochemicals, which are extruded from crude oil feed stock.
- The resins we use are one of the only resins manufactured within the UK. Many of our competitors import their resins from places as far afield as China.

Curing Time

Mindful of the needs of each individual project it is important to Resin Bonded Surfaces Ltd that we have a good level of control over the curing / drying time. In the event that a surface has to be ready for use in a hurry we can speed up the curing time ensuring that the surface is ready for use when you want it to be.

Polyurethane v's Epoxy

The resins we use are polyurethane based. This gives them greater adhesion properties, increased flexibility and most importantly a greater tolerance to moisture. Other key areas where polyurethane out perform epoxy's is that epoxy has a tendency to form a chalk like crust over it if it gets wet and in cold temperatures doesn't cure.

Highways Guidance Notes.

Resin Bonded & Bound systems as a technology are still fairly new and resins are very strong. Highways guidance notes issued concerns about tensions on the asphalt surface could cause it to crack. There is also the issue of the resin surface over the top of the asphalt having a lower flex rate than the asphalt causing cracking in the resin surface. The specially formulated resins we use have been specifically designed to overcome these two important asphalt needs.

- Our resins are fully adhesion compatible to bitumen.
- Our resins flex at the same rate as the asphalt underneath minimising the possibility of a wave effect which could lead to surface cracking.