

# Resin Bound Paving

## Explanation for a resin-bound trowelled surface

### What is Resin Bound Paving?

Naturally occurring shingle, crushed granite or quartz are mixed with a specially formulated clear UV stable aliphatic polymer resin to form a mixture which is poured and then hand-trowelled to a smooth surface.

### What base is required?

The resin bound mixture needs to be laid onto a concrete or porous bitumen/asphalt base.

### Existing base:

The resin bound mixture can be laid straight onto a cleaned and prepared old concrete or bitumen/asphalt driveway.

### New base:

If a new base is required, an open grade binder bitumen/asphalt course should be laid [not a bitumen/asphalt wearing or surface course] onto compacted MOT type 1 sub-base. Alternatively a concrete base with expansion joints, if required.

### Resins

Specially formulated clear UV stable aliphatic polymer resins are used for the resin bound system. These resins are very strong and durable and have a slight flex, so will tolerate a small amount of ground movement. The resin is clear and UV stable, meaning it will not discolour over time, so preserving the natural colour of the aggregate used.

### Aggregates

There is a wide choice of naturally occurring shingles, crushed granite and quartz stone colours available. Aggregates used in the resin bound system are double washed to remove dust, which could discolour the resin. For light domestic traffic use, these aggregates must have a hardness of at least 6 and PSV (skid resistance) of at least 35, stone sizes are approximately 2 - 5mm / 3 - 6mm for external use.

### Coverage

It is recommended that a resin bound surface should be laid to a depth of 15mm for light traffic [i.e. a domestic driveway] and 18mm for heavier traffic.

### Drying time

The resin generally takes 6 - 12 hours to dry, depending on the air temperature. It is recommended that a period of up to 24 hours elapses before you drive on a newly laid resin-bound surface, to allow it to fully harden.

### How a resin-bound surface is laid

1. First the concrete or bitumen/asphalt drive is cleaned with a pressure washer, shot blaster or scabblor.
2. Minor cracks are repaired and any loose material is removed.
3. In a forced-action mixer, the aggregate with a UV-stable high-grade resin liquid are bound together. This is poured onto the area to be surfaced
4. The aggregate mixture is then hand-trowelled onto the prepared drive or path to give a smooth finish.
5. Finally a scattering of anti slip glass sand is applied onto the wet resin surface to provide a extra grip.

### Porosity

The resin bound surface is porous. The gravel or shingle material encapsulated in tough resin, has open voids across the surface that allows water to soak through to the base layer. This water will then filter away to a nearby drainage system, lawn or border to drain naturally into the water table.

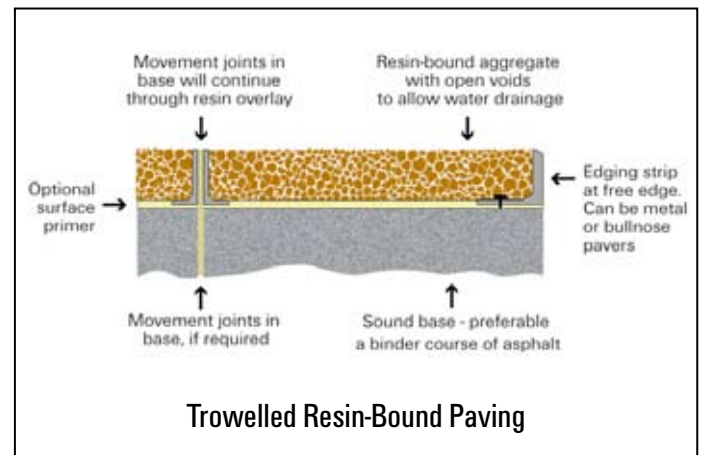
### Easy underfoot: disabled access

The gravel is encapsulated in resin so you will not get loose stones in the tread of your shoes or in your car or house. And the smooth surface is ideal for wheelchairs, pushchairs and bikes.

### Looking after a resin bound surface

You can safely clean a resin bound surface with a power-washer, but you do need to be careful about nozzle distances and pressures.

Our **Aftercare and Maintenance Sheet** details how you should look after your new surface.



For technical advice, survey and quote please call **01273 358177** for more information and to see photographs of recent installations, please visit our website [clearstonepaving.co.uk](http://clearstonepaving.co.uk)

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## Aggregate Colours available

There is a wide choice of shingle, crushed granites and quartz natural stone aggregate colours available.

We have large sample boards for you to choose which colour looks best against the area you want to surface.

Here is a selection of the most popular colours:



*Birch* Size: 2-5mm



*Spiced Barley* Size: 2-5 mm



*Bronze Trio* Size: 3-6mm



*Hardwick Granite* Size: 2-5mm



*Urban Quartz* Size: 3-5 mm



*Havana* Size: 2-5 mm



*Flaxen Pea* Size: 2-5, 6-10mm



*Madder Pink* Size: 2-5mm



*Brewers Malt* Size: 2-5 mm



*Mocha* Size: 2-5mm

## Recent installations by Clearstone Paving



Drive surfaced in Flaxen Pea



Drive surfaced in Hardwick Granite



Garden path surfaced in Mocha



Drive surfaced in Havana

## Advantages of a resin bound surface

**They are hardwearing, very practical and easy to maintain:**

### Natural look

The attractive, traditional appearance of real gravel and chippings, captured in resin, are aesthetically pleasing and provides a sympathetic and suitable material for grade listed properties and heritage sites.

### Wards off weeds

Unlike with block paving, you can easily brush weeds away. That's because their roots can only grow a few millimetres.

### Drains well

Water filters through the porous surface. Rainwater is directed to a lawn or border to drain naturally.

### Low maintenance and easy to clean

You can clean the surface with a power washer without damaging it. Our Aftercare Sheet advises you about nozzle distance and settings.

### Colour fast and UV stable

The resin bound surface encapsulates and protects the gravel in a resin coating so the colour of your drive will always remain the colour of the aggregate used.

### Resists chemicals

The hardwearing resin is extremely resistant to most chemicals including petrol, diesel & oil.

### Camouflage drain covers

We can replace old drain covers with inset lid covers filled with the resin-bound mixture.

### Fixed gravel

The gravel is encapsulated in resin so you are unlikely to get stones in the treads of your shoes or in your car or house.