

Permeable Resin Bound Paving Solutions





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Perfect Permeable Paving

Since 1997, SureSet has been creating beautiful, long-lasting and environmentally-friendly paved surfaces.

Our resin bound paving solutions offer natural and recycled materials, unlimited colours, and a design flexibility no other type of paving can match.

Unlike many traditional paving systems, SureSet is permeable; this means that any proposal including SureSet demonstrates a sustainable approach to water conservation.

As market leaders in resin bound paving, we have the reputation, experience and innovative approach to make any design outstanding throughout the world.

- Durable.
- Permeable.
- Quick & easy to install.
- Unlimited colours.
- Flexible design capability.
- Low maintenance.
- Smooth, hardwearing finish.
- Colour stable.
- 15 year guarantee.





Why SureSet?

Smooth Finish With No Loose Stone

Seamless finish ideal for disabled access, children, pushchairs and bicycles.

Permeable

Fully permeable to water, preventing standing water and ideal when used over a permeable base as part of a Sustainable Urban Drainage (SUD) system.

Hardwearing

Long lasting surface for pedestrian and vehicular areas.

UV Stable

Colour remains true in sunlight.

Low Maintenance

Crack and oil resistant. Minimises puddles, ice and the number of joints for weeds to grow through.

Fast Installation

Approximately 300m² a day can be laid over many existing surfaces.

Design Flexibility

Colours, patterns and logos.

Unlimited Colour Range

For creative, innovative designs.

Colour Matching

Stay in keeping with the surrounding environment.

Matching Reinstatement

Easily patched and repaired with an identical formulation.

DIY Kits

Ideal for small individual areas and available direct from SureSet.

Environmentally Friendly

- Laying method is a low energy cold applied process.
- Thin layer depth (typically 18mm) minimises raw material consumption.
- Can remove the need for excavation and replacement of existing hard surfacing.
- Can be recycled as an inert aggregate at the end of its useful life.

15 Year Guarantee Against:

- Loose stone.
- Cracking.
- Oil damage.
- UV degradation.
- Colour fade.
- Frost damage.





Use It Just About Anywhere

SureSet can be used anywhere that a smooth, permeable surface is needed. With almost unlimited colours and outstanding design flexibility, the results can be sensational as well as hardwearing.

SureSet resin bound paving is ideal for external applications such as:

Heritage Sites

Colour matching on pathways, restoration projects and car parks maintains and enhances the environment.

Driveways, Pathways and Small Car Parks

Smooth and hardwearing for vehicles and pedestrians.

Regeneration Projects

Colours and striking designs for schools, community areas and parks.

Schools

A smooth finish with no loose stone. Easy to maintain for car parks, playgrounds, access areas and paths.

Tree Pits

Cheaper and easier to maintain than grilles, and reduces trapped litter.

Swimming Pool Surrounds

Smooth, permeable surface with low maintenance.

Outside and In

SureSet is not only suitable for external use. As an unusual hardwearing internal flooring, SureSet can look stunning in showrooms, shops, airports, museums and libraries.





Design Capabilities

Because SureSet aggregates are available in a wide range of materials, colours and textures, the design possibilities are endless.

- Create patterns, curves, circles, letters and numbers.
- Design and lay shapes using a stencil or metal edging.
- Achieve larger shapes with zones of coloured paving.
- Break up large areas with different shapes and colours.

SureSet Spectrum

The huge range of SureSet colours has been extended considerably by the addition of SureSet Spectrum, which offers the entire RAL colour palette.

Hardwearing, colourfast and with all the usual benefits of a SureSet resin bound paving system, Spectrum is ideal for creating small, complex, creative designs such as logos.

Design Tips

1. Minimum detail width using stencils or edging is 15mm wide using a 3mm mix.
2. We have a wide choice of natural aggregates in our range, including crushed rock, natural gravels and marble.
3. Stunning visual effects can be achieved with SureSet using recycled materials such as blue, green and lavender recycled glass, recycled cable casings, scallop shells and bathroom ceramics.
4. We're always happy to design bespoke mixes to match a customer's requirement, either by blending different materials to match a preferred colour or by sourcing a new type of material.





Resin Bound vs. Resin Bonded

There are two different types of paving systems that use resin to adhere aggregates to the surface, which although similar in name are very different in principle. They are the resin bound system and the resin bonded system. Both systems however do require a structurally sound substrate in order to perform to their best.

Resin Bonded

The resin bonded system provides a thin, impermeable, single stone layer to the surface which by its nature tends to have a rougher more textured finish. The stone sizes used in this system can range from 1mm to 6mm. A film of resin is applied to the substrate and then scattered with clean, dry aggregate so that the resin is completely covered. Each piece of stone is only bonded to the thin coat of resin which has been applied to the surface. The system is more vulnerable to differences in substrate levels, texture, changes in the viscosity of the resin, the weather, stone quality and variations in technique.

With the system being only a single stone thickness any irregularity in the substrate cannot be disguised without work beforehand which increases costs. After curing, any loose stone needs to be removed to prevent it damaging the new surface. Although giving an attractive appearance at first, any failure to apply it correctly can cause the bond between stone

and substrate to fail, leading to widespread loss of aggregate and causing unsightly bald patches to appear in the surface.

Resin Bound (SureSet™)

The resin bound system consists of a smooth permeable aggregate layer applied to the surface. The stone is mixed with a clear resin on site so that each particle of stone is completely coated with resin. Once the resin and aggregate are fully mixed they are applied to the substrate and hand floated to give a permeable, smooth and durable finish. Although still requiring care and attention on site, this method is much more robust and less vulnerable to variations in the substrate and weather.

When combined it is inherently a much stronger and a more durable finish. The finished depth of the bound system usually varies between 12 and 24mm. The depth depending on the stone size in the mix and the application it is being used for. The resin bound system allows the mixing of different sizes and colours of aggregate to give a wide variety of appearances and textures which is not available with bonded system.

SureSet permeable resin bound paving offers a range of natural gravels, crushed rock, marble, glass and other recycled materials, with the advantage of no loose stone.





Specifying SureSet

To Specify the Process

A SureSet resin bound surface consists of:

- *Aggregate*
Natural gravels, crushed rock, marble or recycled materials.
- *Crystal clear resin binder*
Which is UV stable and flexible.

SureSet resin bound paving is a cold laid, hand applied process. The resin and aggregate are mixed together to ensure each particle is fully coated in resin, allowing it to bind together when laid.

To Specify the Exact SureSet Blend and Depth of Material

- *Product code*
e.g. L1411/00.
- *Description*
Nominal size, colour and texture (crushed/rounded) e.g 6mm Barley Beach.
- *Depth of laying*
e.g. 16mm (dependent on application type).

Where Can You Find This Information?

- Code and descriptions are labelled on the bottom of each sample disk.
- Recommended depths of laying are on SureSet specifications and quotations.
- **Contact SureSet Technical Sales on +44 (0)1985 841180**





Installation

SureSet Resin Bound Paving...

- Can be laid up to three times faster than other paving.
- Needs a curing time of between 4-6 hours for pedestrian traffic applications, and 12-16 hours for vehicular traffic.
- Can be laid in temperatures as low as 0°C; light rain will not affect the process.
- Can be laid over existing surfaces.

Bases For SureSet

Asphalt (ideal base)

Suitable for all traffic types, depending on build up. Asphalt's flexibility helps to avoid cracking caused by sub-structural movement. SureSet can be laid directly onto an existing asphalt surface, or a newly installed one as soon as it has cooled. The ideal asphalt is a small nominal sized close graded asphalt.

Typical sub-base requirements for an impermeable construction are as follows:

- *Pedestrian traffic only - e.g. paths*
75mm depth of well compacted, granular sub base (conforming to national standards) to receive asphalt.
- *Light vehicular use - e.g. driveways*
150mm depth of well compacted, granular sub base (conforming to national standards) to receive asphalt.
- *Heavier vehicular use - e.g. car parks and access roads*
300mm depth of well compacted, granular sub base (conforming to national standards) to receive asphalt.

As with all groundworks, local specialist advice must be taken for the sub base requirements for each scheme.

Concrete

Suitable for all traffic types depending on build up. Concrete needs close attention when laying a SureSet surface, since it can be susceptible to cracking. Although SureSet is crack resistant, it will ultimately reflect any crack in the base, so expansion joints must be included in the plans, and carried up through the SureSet paving.

- *Existing concrete*
Needs to be sealed using a PVA primer before SureSet is installed.
- *Freshly-laid concrete*
A minimum period of 7 days must be allowed before installation of SureSet on new concrete, to allow the surface to harden sufficiently. A PVA primer will also need to be used to seal the surface.

Crushed Rock

Crushed rock is suitable for areas of low pedestrian traffic with no vehicular access...

- Should be built in two layers of 4/20 free draining crushed stone base, and well-compacted to a minimum depth of 100mm.
- SureSet needs to be laid to a minimum depth of 40mm to compensate for the weaker base.





Case Study

Chandos House, Southampton

It was time to wave goodbye to the drab grey paving slabs that were originally in situ on the footpath between Orchard House and Chandos House on the Holyrood Estate in Southampton. In its place, an impressive and contemporary linear design has been created using SureSet permeable resin bound paving.

The design, created by project artist Chris Tipping, incorporates different aggregates from the natural gravel, crushed rock and marble ranges.

When discussing the project Chris said “The brief was very open for this project. This was a fairly straight forward footpath; however, it gave an opportunity to play with repeating elements which suggested movement and rhythms as well as sightlines. The smaller areas represent meetings along the path between pedestrians coming from either direction.”

The simplicity of the design is brought alive by using contrasting colours and was installed at a 16mm depth, which is required for an urban pedestrian area, using 6mm sized aggregates in the Maple, Tuscan Terracotta, Winter Frost and Charcoal mixes. The stark contrast between the colours of the permeable resin bound paving brings life to the once plain footpath, which links the housing estate to the local shops and amenities.

As well as carrying out the design on the footpath, the tree pits were also completed using our 10mm Maple tree pit mix, a very open textured mix that allows water and air to penetrate through to the roots of the tree. SureSet tree pits need little maintenance, are vandal proof and enhance the environment, eliminating the need for unsightly and costly metal grilles.





Case Study

Mercury House, Gainsborough

Mercury House is a modern purpose built business centre located in a prime position on the outskirts of Gainsborough, Lincolnshire. The building itself was completed to a very high standard so it was essential that the customer had a paved area that was just as exceptional.

Having worked with SureSet on previous projects, Lincolnshire County Council has always been very pleased with the finished projects. Working mainly with the natural gravel range, it was especially exciting to be able to recreate the logo for Mercury

House exactly by using a product that is permeable and aesthetically pleasing, without compromising on the durability.

Spectrum permeable resin bound paving was used to recreate the 100m² logo. 3mm Mint Green, 3mm Green and 3mm SureGlow (glow in the dark) were used along with 6mm Sterling from the crushed rock range. Many mixes were blended on site to accomplish the fading that is evident on the logo and an accurately cut stencil was used to exactly replicate the crescent moon shape.

"We are very pleased with the results and have received many positive comments from the tenants of the new building centre. The logo has been reproduced to a very high standard."





Communal area before SureSet resin bound paving.

Case Study

Quintessential Homes, Wembley

This project forms part of an ongoing re-generation scheme of 85 acres of land which surround Wembley stadium. J P Dunn was the external works sub contractor, which included the arrangement of the supply, and installation of SureSet resin bound paving.

Architects PRP aimed to create a communal courtyard and matching footways, whilst ensuring that environmental sustainability and accessibility standards were achieved, allowing wheel chair users the opportunity to enjoy the tranquil surroundings.

6mm Beach Urban Pedestrian Mix along with 3mm Danish Pearl was laid on to the recommended

asphalt base, edged with granite setts, for the pathways and communal areas. 10mm Barley Beach was then used for the tree pits allowing air and water to permeate through the surface directly to the tree roots.

The end result is a stunning landscape which will help to provide the community with an environmentally friendly, sustainable surface, which for many years to come, will enhance the space designated for family activities and socialising.





Case Study Medical Centre, Barry

An eight meter diameter circular artwork, situated at the entrance to the brand new West Quay Medical Centre in Barry, forms a striking and colourful entrance to the building.

The artwork was designed by artist Angharad Pearce Jones and combines several motifs, including a steam engine wheel and hub, referencing Barry dock's rich industrial heritage and a tree motif, representing both family and the tree of Hippocrates. A central motif of Mother and Child reinforces West Quay as a family practice and its mission statement, "Working together, in partnership, with each other,

for each other" runs around the entire artwork in black text, made of crushed coal.












The metal elements of the design were manufactured by the artist's own company, Haearn-Designer Blacksmiths Ltd, based in Carmarthenshire, whilst SureSet supplied and installed the colourful resin bound paving, which included 29m² of 6mm Cotswold, 9m² of 6mm Apollo, 8m² of 6mm Cornish Pearl, 7m² of 6mm Pacific, 6m² of 3mm Midnight and 2m² of 6mm Forest Green.

"The whole project went extremely well with a terrific result achieved by everyone involved. I'm absolutely delighted with the end result."





Natural Aggregates

NATURAL GRAVEL			
			
Maple	Barley Beach	Bronze	Chestnut
			
Tuscan Barley Beach	Charcoal	Winter Frost	Tuscan Terracotta
			
Apollo	Sterling	Chocolate	



Marble & Recycled Materials

MARBLE



Almond



Sterling Forest



Coral



Pearl Coral



Forest Green



Primrose Yellow

RECYCLED MATERIALS



Aegean



Meadow Green



Atlantic



Wild Lavender



Pacific



Midnight




SureSet
Permeable Paving



Spectrum

Spectrum
from SureSet

SPECTRUM			
			
Daffodil Yellow	Light Blue	Light Pink	Mint Green
			
Ruby Red	Zinc Yellow	Signal Violet	Traffic Red
			
Pure Orange	Fawn Brown	Cobalt Blue	Yellow Green
			
Water Blue	Squirrel Grey	Lemon Yellow	Razzle Dazzle

The range is also available to buy loose in 20kg bags.



DIY Kits

Take the opportunity to bring gardens back to life with these easy to use SureSet DIY Kits.

SureSet DIY Kits are ideal for patio areas or small decorative features.

From pathways and patios to pond surrounds and roof terraces, create eye catching features by using our recycled glass or Spectrum range or alternatively tone in with existing gardens using natural gravel, crushed rock or marble.

Each kit will cover 0.5m² at a 16mm depth and contains full instructions of the mixing and trowelling process.





PermaSlab®

PermaSlabs provide a beautiful, highly durable, UV Stable and frost resistant paving solution for all paving needs.

New from SureSet UK Ltd, the leading supplier of permeable resin bound paving - the beautiful PermaSlab.

The new PermaSlab range has been developed to help realise the benefits of resin bound paving, but with the convenience of a standard 500 x 500 x 40mm format.

The PermaSlab is highly durable, resistant to frost and fully permeable, so the appearance of beautiful natural looking surfaces won't be spoiled by standing water, it will simply drain through.

The PermaSlab is laid like any traditional paving slab and is easy to cut, making laying a fast and straightforward process.





15 Year Guarantee & Maintenance

SureSet resin bound aggregate surfacing is fully guaranteed for 15 years from the date of application against:

- Loose stone.
- Cracking.
- Oil damage.
- UV degradation.
- Colour change.
- Frost damage.

SureSet is dedicated to providing the highest possible service with the highest quality product.

The design technology of our resin bound paving system gives us the confidence that when installed in accordance with our quality standards, SureSet will be a hard wearing durable surface which can withstand traffic loads from light pedestrian to vehicular access roads, easily coping with the stresses of power steering and heavy axle loads.

The guarantee is conditional on a suitable surface course asphalt or other approved substrate having been used, and the advice in the SureSet Aftercare and Maintenance leaflet having been followed.

Maintenance

SureSet surfaces are intended to be used by normal pedestrian or vehicular traffic for which they have been designed. Protection should be provided wherever possible against abnormal usage.

Routine Maintenance

Keep the SureSet surface regularly swept clean with a stiff broom and hose with clean water.

Washing

Washing can be carried out using a portable pressure washer to remove dirt, grime and moss.





Testimonials

The Grange, Wimbledon

All the team at SureSet were very professional and helpful, we would definitely use SureSet again.

Mid Kent College

We would definitely use SureSet again, you are a "spot on" sub contractor. Keep up the good work.

Elmfield Road, Gosforth

The quality and appearance of the SureSet surface was excellent and we would definitely recommend SureSet to others. SureSet were professional and performed superbly, I could not have expected a better service.

Renault F1, Enstone

A pleasure to work with, any request that was made was dealt with efficiently and politely. The Sales team were very professional and friendly and the installation team were excellent.

Gateshead Heritage Centre

SureSet have a very professional attitude and are always positive and friendly. The quality and appearance of the SureSet surface is excellent and blends in with the surrounding building. We were kept well advised at all times and we would without doubt recommend SureSet to others.

Jubilee Gardens, Cleveleys

A quality product from a specialist professional company.

Ash Path Hopscotch, Cwmcarn

Every member of staff that I dealt with was friendly, helpful and professional and showed a real interest in the works. The appearance of SureSet is exceptional. The artwork element is beyond my expectations and the finish of the surface is superb.

Halley Primary School, Stepney

Your men are a credit to you, the work was finished to the highest of standards and the quality of the surface is first class, a credit to your company.

Bicester Village

We were very impressed with the professionalism and friendliness of your sales team, particularly with their technical knowledge. We would recommend SureSet to others.

St Anns Junior School, Virginia Water

Our courtyard looks fabulous with its SureSet globe! We've had so many positive comments, thank you so much.

Northwick Circle, Kenton

Your product is excellent and attracts a lot of attention.





Frequently Asked Questions

Can I drive on SureSet?

Yes, SureSet can be designed for every application and can even take heavy traffic such as buses and lorries.

Is the resin toxic?

No. Once installed SureSet is an inert material. Part of the resin blend is derived from natural plant extract.

How is it permeable?

SureSet use just enough resin to ensure each particle is coated allowing the aggregate to bond securely whilst leaving voids for water to permeate through.

What depth is it normally laid at?

The depth of SureSet will vary for each project, this depends on the type of application and the size of the aggregate used. Typically the depth of SureSet is approximately 18mm.

Can I lay it myself?

DIY Kits are available for smaller areas. For projects larger than 20m² it is recommended you use a SureSet fully trained installation team.

How long will it last?

SureSet comes with a 15 year guarantee, however the resin technology suggests it will last in excess of 25 years.

How long does it take to cure?

SureSet will be suitable for use after 4-6 hours for pedestrian traffic applications, and 12-16 hours for vehicular traffic. 24 hours would be ideal where possible for heavy use to ensure a fully cured surface.

Is it easy to clean?

Yes. SureSet is very low maintenance and easy to look after. It can be cleaned with a power wash or simply a stiff broom.

Can I use the resin with aggregate I already have?

Yes. The vast majority of aggregates can be used. If yours is one that cannot then we can always suggest an alternative. Please note that the aggregate will need to be cleaned, dried and graded before re-use.



SureSet

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