

Vuba-Screed Resinset



Ultra Strength



Driveway

Introduction

Vuba resin bound surfacing combines durability, permeability and natural slip resistance with a highly attractive appearance which is practically maintenance free whilst restricting weed growth. Resinset can be used inside or outside in conjunction with all resin bound gravels available from Vuba.

Benefits

- Ultra Strength & Durability
- SUDS Compliant
- Weed Free
- Easy Maintenance
- DIY Friendly
- Generally Self-Priming"

Composition

A two pack low viscosity and light stable polyurethane binder system.

Size

Resinset is available in 6 Kg or 1.5 Kg units.

Components

Each unit of Resinset comprises of one part Resin (Base) and one part Hardener. Both components are preweighed, ready to mix and typically designed for a 100 kg gravel blend.

Important: Resinset UVR is supplied with Resinset Catalyst which must be added. Please consult the Catalyst section in this Data Sheet for further information.

Note: The appropriate ratio of gravel to the Resinset binder may depend on the nature of the installation as well as the selected aggregate specification.

Tip: We find a 50:50 mix of 1-3mm & 2-5mm graded aggregate offers the most effective and durable resin bound surface finish. Alternative mixing ratios may be employed but we recommend you consult our sales team before ordering.

Catalyst

Resinset Catalyst must be used with the UVR grade to activate and control the speed of cure (not required for Resinset Standard). It is supplied as a separate container. This is normally used at between 20 and 40 ml per full 6 kg unit. The level of addition is to be established on site and will be dependant on the site substrate and materials temperature and conditions at the time of application. It is recommended that only the minimum necessary to achieve the required cure is used, excess will severely affect the working time for the product. For pot life please consult Cure Schedule below.

UV Resistance

Resinset is available in Standard and UV Resistant variants. Resinset UVR is resistant to discolouration after exposure to light. Resinset STD does not possess UV resistant properties. However, the standard grade is a popular cost effective option when yellow and dark aggregate blends are chosen in order to minimise the discolouring effect.

Important: The colour change is always inevitable, often within a short period of time, unless the superior UVR variant is opted for.

Coverage Guide

Coverage achieved with one unit of Vuba resin bound depends entirely upon the thickness applied. Please see below guide based on the recommended gravel blend of 100kg per unit of Resinset:

15mm:	3.73m ²
18mm:	3.11m ²
20mm:	2.80m ²
25mm:	2.24m ²

Important: Do not overestimate coverage and avoid under ordering. Finishing off another day will have major implications on the finish of your resin bound surfacing.

Note: The thicker the application, the stronger the screed. Footpaths and driveways are therefore generally applied at 15-18mm.

Appearance

Once incorporated into a fully mixed aggregated system, Vuba-Screed Resinset achieves a highly attractive smooth textured finish available in a wide range of different aggregate blends. Please consult the relevant product data sheet to choose your desired gravel specification.

Availability

We aim to dispatch all standard orders received before 12pm for next day delivery. Bespoke and non-stock items may take up to 3-5 days.

Typical Installations

Vuba-Screed Resinset is manufactured for use as the binder within a resin bound surfacing system. It is suitable for both external and internal use. Common applications include domestic driveways, entrance and parking areas, footpaths, public parks, landscaping schemes, patios, playgrounds, swimming pool surrounds, access ramps, roof terraces, and balconies etc. For alternative application enquiries please contact us.

Note: Previous experience is generally required when applying this method of aggregated resin system.

Anti Slip

Vuba resin bound surfacing is generally accepted as a naturally slip resistant surface profile. However, because of the smooth trowelled finish, in some instances this may not suffice. Therefore, we offer a range of resin bound anti slip additives to achieve extra anti slip and skid resistance where necessary. These additives are simply broadcasted over the freshly applied surfacing as required and left to cure.

Note: Each additive will have a different effect to the overall appearance of the resin bound surfacing. Please consult the relevant anti slip additive data sheet for further guidance or contact us for advice.

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Standard Colours



Amber Gold (1-4mm)



Yellow (2-5 & 10mm)



Silver (1-3, 2-5 & 10mm)



Autumn Quartz (1-3 & 2-5mm)



Red (1-3 & 2-5mm)



Golden Quartz (2-5mm)



Staffordshire Pink (1-3 & 2-5mm)



Chinese Bauxite (1-3mm)



Golden Pea (1-3 & 2-5mm)



Green (2-5mm)



Pearl Quartz (1-3 & 2-5mm)



Black (2-5mm)



White Flint (2-5mm)



Brittany Bronze (1-3, 2-5 & 10mm)



Autumn Gold (1-3 & 2-5mm)



Classic (1-3 & 2-5mm)



Corn Flint (2-5 & 6-10mm)



Danish Quartz (1-3 & 2-5mm)



Bauxite Guyanan (1-3mm)



Beige (2-5mm)



HM Quartz (1-3 & 2-5mm)



Rhine Gold (6-10mm)



Dark Ruby (1-3mm)



Trent Pea Gravel (6-10mm)

Note: All colours and appearances represented act as a guide only. If the colour or final aesthetics are of prime concern, please contact us and request an actual sample as required. Aggregate matching may be offered on request. We reserve the right to adjust or discontinue any colour in any range. Some of the gravel and the shingles may occasionally contain minor concentrations of iron minerals, which upon weathering may result in areas of rust spot staining. These iron minerals occur naturally within the gravel deposits, and Vuba Supplies Ltd cannot be held responsible for any loss or damages suffered as a result of such staining. The higher risk products are the Yellow 10mm, Yellow 2-5mm and Amber Gold 1-4mm.

This range includes our standard and most common aggregate blends. Vuba supply a more expansive range on request so please contact us with your specific requirements.

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Drainage

Resinset has been developed as a SUDS compliant permeable system, allowing water to soak through the surface, helping to prevent the rapid surface water runoff that causes flooding.

Note: Sustainable Urban Drainage Systems (SUDS) is the name given to the associated UK Government legislation.

Durability

Resin bound surfacing is suitable for heavy duty traffic with superb flexibility and resistance to cracking. The final strength of a resin bound surfacing system using Resinset UVR or STD is directly affected by the choice of aggregate specification as well as the level of compaction during installation. It is the responsibility of the installer to ensure that the proposed mix and application method is suitable for the intended use.

Substrates

Resinset is suitable for use over typically encountered load bearing substrates such as asphalt and concrete. For alternative substrate enquiries, please contact us.

Note: New concrete should be finished as tamped or combed with a maximum texture depth of 5mm.

Important: New asphalt should be left for a minimum of 28 days, and new concrete should be left to dry thoroughly and achieve moisture level below 75% RH before application (a specialist primer may be required otherwise). Drying times may be longer in winter or in areas unexposed to sunlight.

Samples

To ensure that you are choosing the right product for the job, we always recommend purchasing an appropriately small amount to trial first. This allows you to gauge the achievable coverage as well as seeing the type of finish and colour in person, which may sometimes appear differently to on the screen or printed out. This is also a good chance to practice the application method which may be a useful process if previous experience with resin bound surfacing is limited. Hard samples may also be available upon request and can usually be posted within 1-2 days.

Preparation

To ensure maximum adhesion and performance from Vuba products the correct preparation methods must be adhered to. Please see our 'Vuba Floor Preparation Data Sheet' for more information. Ensure that the substrate is sound, clean, contamination free and able to withstand the load that is expected from normal use. You should remove oil, de-icing salt, grease and similar contamination by washing with Vuba-Degreaser, followed by flushing with clean water. Fungal and algal growth is best removed by applying Vuba-Fungicide to the affected areas, followed by thorough rinsing or pressure washing.

Tip: Mask any ironwork or kerb edges to prevent contamination with the resin.

Important: Any edges that are not abutted should be restrained by a metal end-stop bead of the correct depth. You can fix your beads using an appropriate adhesive, nails or screws.

Tip: After preparation, you must ensure that the existing surface is completely dry. The use of a hot compressed air lance is advised since it will also serve to warm the surface and accelerate curing, which is especially useful in winter conditions. Where it is not possible to keep the materials warm prior to mixing, the aggregate should also be pre-heated on site using a gas-lance immediately prior to mixing with the Resinset system.

Priming

Resinset is generally a self priming resin system. However, if the substrate is highly absorbent surfaces such as porous concrete and weathered timber, it is advisable to prime first. For best results use Vuba-Epiprimer two part epoxy primer then broadcast fully with Vuba-Adsafe Quartz Aggregate (contact us for guidance) and allow to harden. Ensure that the surface is a 'sand carpet' and that there are no 'bald' patches of resin without aggregate encapsulation. Primer should be sand blinded whilst still tacky (at approx. 1kg/m² rate), allow to fully cure before brushing away excess sand and applying Resibond. New, contaminated or extremely weak surfaces may require a specialist primer. Please contact Vuba if in doubt.

Ambient Temperature

Do not apply to substrates outside of the recommended temperature range of 7-25°C.

Mixing

Ensure you have a mixing area clearly set out and you have planned the application process well before mixing, ensuring all tools are ready to be used so that the product pot life can be used effectively. Charge the mixer with the aggregate and dry blend for 30 seconds to mix any combined aggregate types or segregated material. Using a drill and helical whisk, blend the total content of the Resinset hardener component into the Resin (Base) container. Add the Resinset Catalyst (UVR grade only). Mix all components thoroughly until homogenous for approximately 2 minutes, ensuring all material from the sides and bottom of the container is included. Start the aggregate mixer and immediately pour in the mixed Resinset components. Blend for at least 30 seconds until homogenous, then discharge the mix immediately into a wheelbarrow lined with polyethylene sheet and tip onto the application area ready for application.

Important: Under no circumstances should damp aggregate be used. This should be checked prior to starting application.

Tip: To get your mix right, we strictly recommend using an 80 litre or more capacity forced-circulation mixer. These can be picked up from most tool hire stores.

Substrates

Resinset is suitable for use over typically encountered load bearing substrates such as asphalt and concrete. For alternative substrate enquiries, please contact us.

Note: New concrete should be finished as tamped or combed with a maximum texture depth of 5mm.

Important: New asphalt should be left for a minimum of 28 days, and new concrete for a minimum of 7 days to allow to dry thoroughly before application. Drying times may be longer in winter or in areas unexposed to sunlight.

Mixing

Ensure you have a mixing area clearly set out and you have planned the application process well before mixing, ensuring all tools are ready to be used so that the product pot life can be used effectively. Charge the mixer with the aggregate and dry blend for 30 seconds to mix any combined aggregate types or segregated material. Using a drill and helical whisk, blend the total content of the Resinset activator component into the Resin container. Mix both components thoroughly until homogenous for approximately 2 minutes, ensuring all material from the sides and bottom of the container is included. Start the aggregate mixer and immediately pour in the mixed Resinset components. Blend for 30 seconds until homogenous, then discharge the mix immediately into a wheelbarrow lined with polyethylene sheet and tip onto the application area ready for application.

Note: If using our resin bound catalyst for improved curing times, the appropriate amount should be mixed into the resin system before added to the aggregate blend. Please consult our sales team for DIY guidance.

Important: Under no circumstances should damp aggregate be used. This should be checked prior to starting application.

Tip: To get your mix right, we strictly recommend using an 80 litre capacity forced-circulation mixer. These can be picked up from most tool hire stores.

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Application Technique

Pour out and pre-level the mixed material using a flat-bladed squeegee or rule level between battens of the correct thickness or any pre-fixed endstop beading that may have been fixed. Compress, level and consolidate the resin bound surfacing using a double-ended bullnose trowel. When introducing design elements such as borders and inserts with alternative aggregates, wooden batons faced off with polypropylene or polyethylene tape should be temporarily fixed to the substrate. The resin bound surfacing should then be brought level to the edge and allowed to harden. Upon removal of the battens, the edge should be masked and the alternative mix abutted. Complex design elements should be cut from MDF of the correct thickness, loosely fixed or placed onto the substrate and the same procedure to be followed.

Tip: Clean your trowel with white spirit regularly to easily achieve a smooth surface finish.

Important: To avoid inconsistencies and imperfections, we strongly recommend that resin bound surfacing is applied by experienced contractors, particularly where complex designs are being employed. Application technique and site conditions are beyond the control of Vuba and we can therefore not be liable for any anomalies that may arise.

Note: For existing joints, once your applied screed has cured, you should snap a chalked string-line between two pre-marked points and diamond saw cut a 10mm channel through the thickness of the resin bound surfacing before infilling level with one of our jointing compounds.

Tool Cleaning

Vubasolve xylene solvent should be used to clean any reusable tools. Splashes or spillages can also be removed with the help of Vubasolve and wiping with rags.

Maintenance

The final resin bound aggregate surface requires minimal maintenance. To maintain the appearance of the surface, regular sweeping should be undertaken using a stiff brush to keep it clean and free from dirt and debris. Where it is necessary to remove stains caused by oil spillages, Vuba-Supaclean may be used with care. The use of cold pressure washing may be used to remove ingrained dirt. However, close contact high pressure water jetting should always be avoided.

Important: Mechanical brushes using steel bristles must not be used.

Health and Safety

Please read the relevant Material Safety Data Sheets before commencing application. Resinset is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area and thorough washing with soap and water.

Cure Schedule (20°C)

	Standard	UVR
Pot life at 20°C:	15mins	30mins (with 20ml of catalyst per 6Kg Resinset) 10mins (with 40ml of catalyst per 6Kg Resinset)
Foot Traffic:	6-8 hrs	3-8 hrs
Full Traffic:	48 hrs	24 hrs
Full chemical cure:	3-5 days	2-3 days

Note: Curing times will be extended in cold temperatures and equally shortened in higher temperatures.