

vebro PU UV Binder (2-Pack)

vebro PU UV Binder is an aliphatic two-pack, polyurethane binder offering excellent strength and UV resistance.

vebro PU Crumb Binder is designed to bind natural stone aggregates in a wide range of external SuDS compliant surfacing applications.

Typical uses include terraces, driveways, outdoor concourses, walkways in leisure parks and hotel resorts amongst other outdoor spaces.

vebro PU UV Binder exhibits excellent resistance to diluted acids and alkalis, salt and waste water, lubricant and oils.

Component	Weight	
vebro PU Binder	Small Kit	IBC
Total Unit:	7.50 kg	2,000.0 kg



Density

Mixed Unit: 0.95 kg / ltr

Unit Weight

7.50 kg (7.90 ltr)

2,000 kg (2,105 ltr)

Coverage

~4.0 sqm at 15.0 mm, 3.5 sqm at 18.0 m and 3.0 sqm at 20.0 mm based on recommended

Design Mix

Flash Point

>60°C Non-flammable

Non-Volatiles

100%

HS Code

(Part A) 3907911000

(Part B) 3911901990

Consumption

The recommended consumption of **vebro** PU UV Binder is 8.0 – 10.0% by weight of clean, dry aggregates.

Speed of Cure

- Wet Edge – 1.5 hours
- Light Foot Traffic – hours
- Vehicular Traffic – 3 days
- Full Chemical Cure – 7 days

In winter months, we recommend the use of our **vebro** PU Accelerator to increase the cure time of the material.

Storage

All components should be stored off the ground, in a cool dry area, away from direct sunlight between 5 – 30°.

To avoid moisture and extreme temperature fluctuations. It's crucial to keep resin tubs sealed and intact and to avoid using aggregates that show signs of dampness or water ingress.

*These coverages are theoretical and may vary due to a number of factors including the condition of the substrate. It is the applicator's responsibility to ensure the substrate has been surveyed and tested. A recommended 5% wastage addition is advised on all orders.

Mix Designs

Product	vebrobound Pedestrian 15.0 mm	vebrobound Driveway 18.0 mm	vebrobound Pedestrian 12.0 mm
vebro PU UV Binder	7.50 kg	7.50 kg	7.50 kg
vebro Decorative Stone (2.0 – 5.0 mm)	75.0 kg	75.0 kg	75.0 kg
vebro Decorative Stone (1.0 – 3.0 mm)	25.0 kg	25.0 kg	25.0 kg
vebro 52/30 Sand	6.0 kg	6.0 kg	6.0 kg
Coverage:	~4.0 m²	~3.5 m²	~3.0 m²

Substrate Requirements

vebrobound Pedestrian, Driveway and Car Park systems require a stable sub base to which the resin bound system can be applied. A typical base for a resin bound driveway or other surface, whether new or existing, can include the following; Tarmac, Asphalt or Concrete.

The substrate needs to be strong, stable, and free of movement or contamination. It should also be suitable for the expected traffic load and capable of providing adequate drainage.

Use an outdoor hygrometer to check for humidity. If the humidity level is below 80%, it is okay for working. If any higher, you may need to delay the project.

Application Instructions

Optimal Conditions

The best conditions to install vebrobound systems is when it is warm and dry between 5°C and 25°C.

If it is extremely hot, the resin can cure too quickly, making it difficult to trowel and create a uniform appearance.

If it is too cold, the resin can take longer to cure, resulting in a softer surface that's more susceptible to moisture damage - however we do have catalyst to increase the rate of cure in cold dry temperatures.

If there is high humidity during installation this can lead to an inconsistent texture and compromised aesthetic appeal.

Other weather conditions to avoid include, rain, fog or mist, where water ingress can cause "blooming" or whitening within the product.

Although the vebro PU UV Binder is moisture tolerant we strongly advise against working in wet / rainy conditions. Don't ever lay onto wet surfaces - standing water should be well brushed away and directed to drains.

Mixing

It is recommended that the materials are mixed using a forced action mixer as the vebro PU UV Binder and decorative stone aggregates must be agitated and not just stirred.

First, vebro PU UV Binder (Part A) for between 10-20 seconds with a slow speed, high torque, helical blade mixer. Accelerator should be added at this stage if required.

Add vebro PU UV Binder (Part B) and mix thoroughly at a slow speed for approximately 60 seconds until it is uniform.

Place the first 25.0 kg bag of vebro Decorative Stone 2.0 – 5.0 mm and the bag of vebro Decorative Stone 1.0 – 3.0 mm into the forced action mixer. Add the pre-mixed vebro PU UV Binder immediately to the pre-mixed aggregate and begin mixing.

Add the further two bags of vebro Decorative Stone 2.0 – 5.0 mm before adding the vebro 52/30 Sand slowly and steadily to ensure an even consistency.

Thoroughly mix all components in a forced action mixer for 3 – 4 minutes,

The forced action mixer must be cleaned thoroughly after every mix to avoid contamination.

Ensure each batch is mixed for exactly the same time, as the colour of the finished material can alter with small changes in mixing time. It is advisable that a stopwatch is used to ensure that the correct mixing time is adhered to consistently.

Application

The material should be barrowed out (plastic line your wheel barrow) and poured evenly across the working area.

Use a screed bar to further level out the mortar before trowelling. Ensure the mortar is packed into every edge to avoid gaps.

Use the trowel with its edge slightly raised, applying consistent pressure to knit the mix together into a compact and level surface. Trowel the mix until the aggregates stop moving fluidly. Aim to do this in as few strokes as possible.

Once levelled and compacted, polish the surface to create a uniform, smooth attractive finish

The system is designed to offer both SuDS compliance and a level of cushioning, do over compact the material.

Leave the edge of each trowelled section rough and unworked for easy blending with the next batch.

For additional slip resistance, sprinkle a light, even layer of crushed glass across the surface.

A three-man crew is recommended; one operative to mix, one operative to barrow out and trowel and one operative to lightly roll the material to a level finish. Again, take care not to over compact the material.

Decorative Stone

Aggregates used in resin bound applications should be unpigmented, natural stone that has been washed and dried. As the stone is naturally occurring, it is not susceptible to colour fade as no colour pigments are added.

Many natural stones are quarried where there are natural iron deposits present. As such **vebro** Decorative Stone carries a small risk of 'iron spotting' (Small rust coloured spots on the finished surface). This should be pointed out to customer prior to ordering.

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of resin based coating materials must be observed. Suitable protective clothing including eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions and system build-up advice can be provided on request through our Technical Services team.

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