

BOUND BASE PRO

Installation instructions

Updated system specification and installation sequence

System and materials

Bound Base PRO is a reinforced, permeable base course beneath decorative resin bound surfacing. It must be installed over a stable, properly prepared, free-draining sub-base suitable for the site and intended traffic.

Application	One full batch	Base depth	Coverage*
Pedestrian	4.5kg binder + 100kg of 1-5mm aggregate	15mm	Approx. 4m ²
Vehicle	4.5kg binder + 100kg of 6-10mm aggregate	30mm	Approx. 2.5m ²
Heavy traffic / all commercial	4.5kg binder + 100kg of 6-10mm aggregate + 5kg Binding Quartz	30mm	Approx. 2.5m ²

***Coverage assumes a capping layer is used.** Without a capping layer, coverage will be approximately 10-15% lower. The website calculator uses the stated coverage and does not adjust for this reduction.

Each binder pack contains **4.5kg in an 11 litre bucket**, leaving space to mix in catalyst. Each aggregate kit contains four 25kg bags. Binding Quartz is mandatory in every heavy traffic and commercial base batch.

Required supporting products: 50kN reinforcement mesh above and below the base, plus catalyst. **Catalyst and mesh are not included in the full kits and must be ordered separately.** Capping materials and the decorative resin bound surface are also separate.

Catalyst and working conditions

Catalyst is required below 15°C. At 15°C and above it is optional, but it can be used at all temperatures within the 5-30°C application range where faster curing is required to help complete the full installation on the same day. Suggested dose: **1ml per 4.5kg binder pack**. Same-day completion depends on site conditions and the readiness of each layer.

Prepare the site and equipment

Use a forced action mixer, paddle mixer, suitable wheelbarrow or container, spazzle or levelling rake, trowels, roller, knife or snips, accurate catalyst measuring equipment and the PPE required by the risk assessment.

Confirm the sub-base and drainage design. Compact in layers and leave the surface stable and even. Remove contamination, debris and standing water. Where specified, install and compact the regulating capping layer before the lower mesh.

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Installation instructions

Updated system specification and installation sequence

1. Fit the lower 50kN reinforcement mesh

Lay the lower 50kN reinforcement mesh over the prepared capping layer or sub-base. Cut to size and keep it flat to the edges. Overlap adjoining lengths so there are no gaps in the reinforcement. Keep the mesh in position while placing the Bound Base PRO mixture.

2. Mix one complete batch

- a. Start the forced action mixer and add the specified **100kg of aggregate**.
- b. Where catalyst is required or being used to accelerate curing, add the suggested **1ml to the 4.5kg binder** in its 11 litre bucket. Mix with a paddle mixer for approximately **30 seconds**.
- c. Pour the binder into the circulating aggregate and scrape the bucket to transfer the full pack.
- d. For **every heavy traffic and commercial batch**, add **5kg Binding Quartz**.
- e. Mix for approximately **2 minutes**, ensuring the aggregate is evenly coated and the batch is fully blended.

3. Place and finish the base

Discharge into a plastic-lined wheelbarrow or suitable container. Tip onto the lower mesh without displacing it. Spread, level and compact the material with appropriate levelling and trowelling tools, ensuring the lower mesh is fully incorporated. Confirm a finished base depth of **15mm for pedestrian use** or **30mm for vehicle, heavy traffic and commercial use**.

4. Complete the reinforcement and assess overlay readiness

A second layer of **50kN reinforcement mesh** is required above Bound Base PRO and below the decorative resin bound layer. Keep the upper mesh flat and overlap adjoining lengths. Both layers must be in place before the decorative surface is completed.

Cordon off the area during curing. Typical overlay time is approximately **2-6 hours**, depending on temperature, catalyst use and site conditions. Assess the base before continuing. This is not a full-cure time or permission to open the completed surface to traffic.

5. Install the decorative surface

Check that both mesh layers are in place and the base is ready for overlay. Use the separate ResinRox instructions for the decorative top layer, its Binding Quartz requirement and opening-to-traffic times.

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Safe handling and installation checks

Read the current approved binder and catalyst Safety Data Sheets before use. The binder contains isocyanates, which can cause respiratory and skin sensitisation. Avoid skin and eye contact and inhalation exposure. Use suitable chemical-resistant gloves, eye protection, workwear and exposure controls selected through the site COSHH assessment. Ensure any required diisocyanate training has been completed. If binder contacts skin, wash with plenty of soap and water and follow the SDS advice.

Application range: **5-30°C**. Catalyst does not extend that range. Use the current approved SDS and product label for storage, handling, spill response and disposal instructions.

Before the decorative layer is installed

Check	Required condition
Base specification	Correct aggregate size, binder ratio, finished depth and 5kg Binding Quartz for all heavy traffic/commercial batches.
Mesh	50kN reinforcement mesh below and above Bound Base PRO. Both layers sit flat, with adjoining lengths overlapped.
Coverage	Allow for the approximately 10-15% reduction without capping. Do not stretch a batch to meet the calculator figure.
Cure	Assess actual readiness. The 2-6 hour figure is a typical overlay time, not a guaranteed same-day completion or traffic opening time.
Surface system	Install the specified decorative resin bound layer and follow its separate mixing, quartz, curing and traffic-opening guidance.

Mesh quantity

Bound Base PRO requires two layers of 50kN reinforcement mesh. **We recommend ordering 10% extra mesh to allow for overlaps, offcuts and waste.** Calculate the total mesh quantity as **project area × 2 × 1.10**. For example, a 50m² project requires 110m² of mesh. Each 1m × 100m roll provides 100m² of mesh; round up to whole rolls when ordering.