

BOUND BASE PRO

Technical data sheet

Product, coverage, construction and application guidance

Product overview

Bound Base PRO combines a single-part polyurethane binder with specified aggregates to form a reinforced, permeable base beneath decorative resin bound surfacing. It is an alternative base-course construction to asphalt or concrete within a suitably designed system.

The system includes **50kN reinforcement mesh both below and above the Bound Base PRO layer**. Sub-base depth, drainage and suitability must be assessed for the site and intended loading; this sheet does not establish a universal vehicle weight limit.

Property	Specification
Binder	Single-part polyurethane; 4.5kg pack in an 11 litre mixing bucket.
Standard batch	4.5kg binder to 100kg aggregate.
Heavy / commercial batch	4.5kg binder + 100kg 6-10mm aggregate + 5kg Binding Quartz. Required for all heavy traffic and commercial applications.
Reinforcement	50kN reinforcement mesh below and above the base layer.
Application temperature	5-30°C.
Typical overlay time	Approximately 2-6 hours, depending on temperature, catalyst use and site conditions.

Coverage and depth

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.

Full-kit exclusions: catalyst and 50kN reinforcement mesh must be ordered separately. Capping-layer materials and the decorative resin bound surface are not included.

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System build-up: top to bottom

Both mesh layers are required. The layer order below applies to pedestrian, vehicle and heavy traffic/commercial systems; select the corresponding aggregate and depth.

Layer	Specification
1. Decorative resin bound surface	ResinRox: 15mm for pedestrian use; 18-20mm for vehicle/heavy traffic and commercial use. Follow the separate surface specification, including its Binding Quartz requirement.
2. Reinforcement mesh	50kN reinforcement mesh above Bound Base PRO and below the decorative surface.
3. Bound Base PRO	Pedestrian: 1-5mm aggregate, 15mm base depth. Vehicle/heavy/commercial: 6-10mm aggregate, 30mm base depth. Use 4.5kg binder to 100kg aggregate; add 5kg Binding Quartz for all heavy traffic/commercial batches.
4. Reinforcement mesh	50kN reinforcement mesh below Bound Base PRO.
5. Regulating capping layer	Optional: up to 25mm of well-compacted 5-10mm angular stone to provide an even supporting surface. Stated kit coverage assumes this layer is used.
6. Free-draining sub-base	MOT Type 3 or suitable equivalent. Provide a sub-base of 150-300mm, subject to ground conditions and intended loading. Confirm the design for the actual site and drainage requirements.
7. Geotextile membrane	Recommended. Select a suitable grade for the site conditions.
8. Subsoil	Ground conditions determine the sub-base and drainage requirements.

Mesh allowance: order mesh for both layers plus a recommended 10% extra for overlaps, offcuts and waste.
Project area × 2 × 1.10 = total mesh area. A 50m² project requires 110m² of mesh. Each roll contains 100m²; round up to whole rolls when ordering.

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Catalyst and curing

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.

Mix the catalyst into the binder for approximately 30 seconds before adding the binder to the aggregate. Follow the installation instructions for the full mixing sequence. Catalyst is sold separately.

Assess the base before overlaying. Do not treat the typical 2-6 hour overlay period as a full chemical cure time or a guarantee that the completed surface can be opened to traffic.

Health and safety

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.