

What is the difference between resin 'bound' and resin 'bonded' surfacing?

Resin **bound** paving provides a **water-permeable** surface when laid on a an open grade binder asphalt. The resin bound mixture has open voids across the surface, allowing air to flow freely and surface water to filter through the structure, making it highly suitable for driveways, paths, tree pits and areas prone to standing water. The smooth surface, with no loose stones, is ideal for wheelchair access and tough enough to withstand pressure washing.

By contrast, resin **bonded** surfacing is **non-permeable** and must be laid on a non-porous fine wearing course asphalt or concrete base. With resin bonded paving, soakaways and ACO drains must be installed to prevent run-off which could lead to flooding..

'Resin bonded' is sometimes also used as a generic term for both systems. This can be misleading, since the systems produce different results.

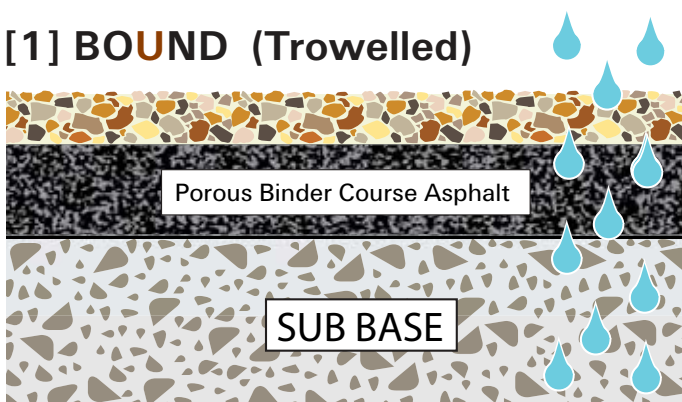
*** * * Clearstone Paving specialises in Resin Bound Paving only * * ***

What is resin bound (or "trowelled") paving? [Fig. 1]

Resin bound paving is made from shingle, quartz or crushed granite coated with a clear UV-stable polymer resin. To ensure that each aggregate particle is completely coated in resin, the two elements are pushed through a force-action mix process to form a cold-pour mixture. The mixture is then poured and hand-trowelled to form a smooth, accurate surface with no loose stones. It is recommended that a resin bound surface should be laid to a depth of **15mm** for light traffic [i.e. a domestic driveway] and **18mm** for heavier traffic.

Bound = **ultra-permeable, smooth surface**

Compliant with SuDS regulations



Top surface: **15 -18mm** thick 'bound' mixture of stones and resin

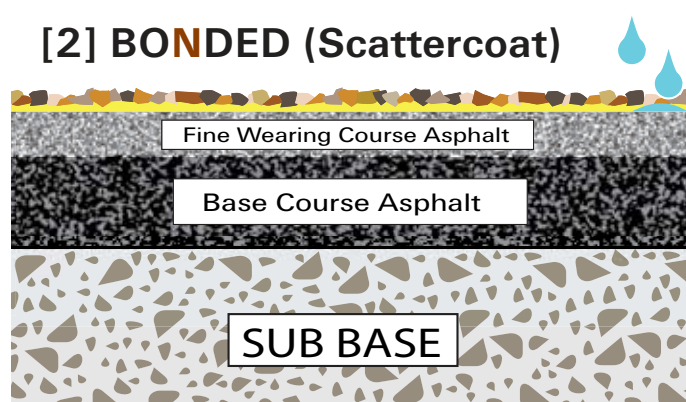
What is resin bonded (or "scattercoat") paving? [Fig. 2]

Resin bonded paving is made by sprinkling loose aggregate onto resin. It's a great, low-cost option for redevelopment projects or for giving a project an instant facelift. However, it's not as durable as resin bound paving: the bonded aggregate particles may loosen over time and the surface is not as easy to clean. Depending on the aggregate size [1-3mm], the depth is generally **3mm**.

Bonded = **non-permeable, rough surface**

Non-compliant with SuDS regulations

(SuDS: Sustainable Underground Drainage Systems)



Top surface: **3mm** layer of single stones 'bonded' to resin