

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

Resin **bound** surfacing provides a **water-permeable** surface when laid on 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 an ideal permeable system for driveways, paths, tree pits and areas prone to standing water. The smooth surface, with no loose stones, is suitable 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 surfacing, 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.

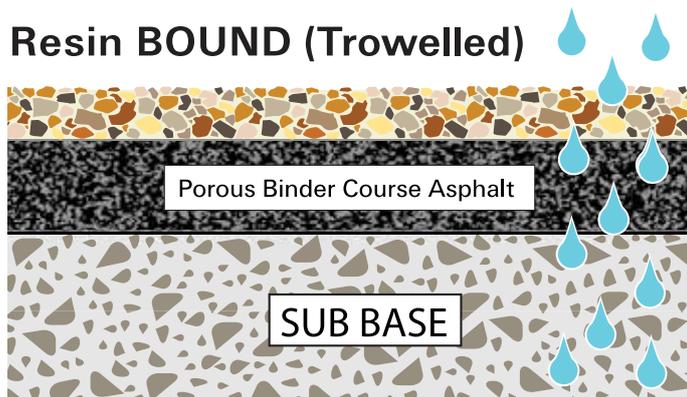
***** Clearstone Paving specialises in Resin Bound Surfacing only *****

What is resin bound (or "trowelled") surfacing?

Resin bound surfacing is made from a blend of shingle, quartzite or crushed granite coated with a clear UV-stable polyurethane resin. To ensure that each aggregate particle is completely coated in resin, the two elements are combined in 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 a pool surround, footpath or terrace and **18mm** for a driveway and car park.

Bound = permeable, smooth surface

Compliant with SUDs regulations



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

What is resin bonded (or "scattercoat") surfacing?

Resin bonded surfacing 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 Urban Drainage Systems)



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

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