VolkerLaser

M48 Severn Bridge

VolkerLaser was appointed by Amey to deliver a resurfacing trial on the M48 Severn Bridge, which spans the River Severn and the River Wye.

Stretching 3,000 metres, the Severn Bridge connects South Gloucestershire in England to Monmouthshire in Wales. The trial was designed to test a new waterproofing and resurfacing methodology, ensuring it could be successfully applied across the entire bridge as part of future works.



Highways, bridge and tunnels

Location	**Expertise**	**Status**
South Gloucestershire	Highways	Completed

The full scope of works included the removal of the existing surfacing and waterproofing system, followed by re-waterproofing and resurfacing the bridge deck.

Works commenced in August 2026 with the removal of the original carriageway surfacing waterproofing system. Once removed, the bridge deck was prepared through the grinding of 1,000 linear metres of welds and a combination of active blasting and vacuum blasting techniques. Following deck preparation, the team applied 2,000m2 of a new waterproofing system. This innovative single-coat system incorporated a sheer key layer, assisting the surfacing to increase its performance under loading, before a bond coat was applied. Once the waterproofing works were complete, asphalt resurfacing was installed across the bridge deck. To meet the bridge specification, Safetrack Surface Colour (SC) was applied in RAL9010 (Pure White) along the length of the trial area.

The works were then completed with the reinstatement of 200 linear metres of preformed mastic kerbs, which were secured to the deck using GCP metaset structural adhesive and primer.

The purpose of the trial was to assess whether the proposed methodology could be successfully implemented across both carriageways of the bridge as part of the main programme of works. The trial proved successful, with our client commending the team for the quality and successful delivery of works.

Through careful planning and collaboration, the works were successfully delivered on programme, completing the trial in September 2026.



