

The Project

The Brynglas Tunnels on the M4 near Newport are critical to the Welsh economy and it is vital that they are efficiently maintained. Commissioned by client, Costain, Toppesfield completed resurfacing of the tunnels in 2018, which form part of a wider scheme of major works to structures, bridges and tunnels which will improve the motorway.



Our Work

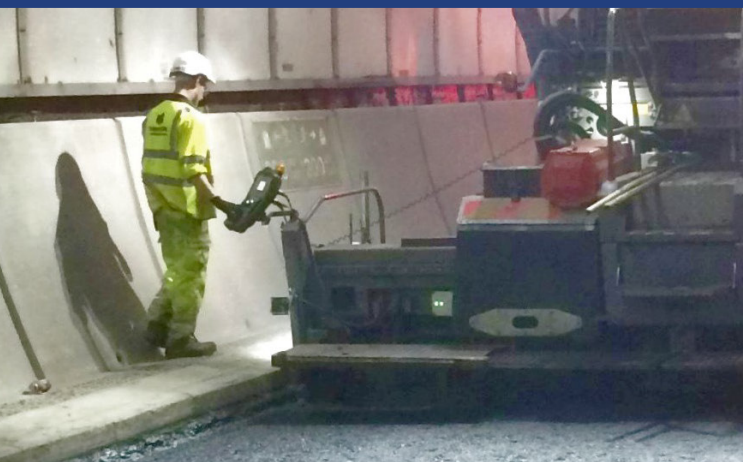
Starting in June 2017, the 12 month resurfacing works included four weekend closures, Friday 21:00 to Monday 06:00. During this period full rehabilitation works were undertaken to both tunnels which included the planning of existing asphalt and composite pavement as well as relaying of 4780 tonnes of asphalt. In addition we relayed four layers of Warm Mix asphalt technologies, including the first ever use of Warm Mix EME2 binder in Wales. The reduced mixing temperature of Warm Mix

means a significantly reduced cooling time, allowing for increased productivity where working windows are restricted.

Results & Achievements

Additional installation - 4,000 m² of HRA & PCC's and 13.500 m² of Thin Surface Course Systems on M4 adjacent to the tunnels over 20 Night possessions.

Collaborative Planning - Working with key stakeholders, main contractors and supply chain, ensuring that the critical re-opening of the M4 was met without delay.



Brynglas Tunnels was a very complex and demanding challenge. The concept and design of the delivery involved meticulous planning and coordination. Toppesfield provided the professionalism and support to make this a very successful project. Working through adverse conditions and logistic challenges delivering nearly seven hundred tonnes without defect or delays, over eight, thirty-four-hour closures. The support provided by their management team was second to none with thorough attention given to safety, quality and delivery.

Phil Davies, Project Director, Costain