

+

**Client:** CORMAC  
**Name:** Tamar Bridge and Ferry Board  
**Period:** September 2011  
**Value:** £560k  
**Location:** Plymouth  
**Works:** Waterproofing and Surfacing



## The Project

**SL Construction Services** and their Specialist Surfacing partner **Aeschlimann AG** were selected through early contractor involvement to install a new waterproofing and high performance **Gussasphalt** surfacing system to replace the existing bridge waterproofing and surfacing on the East bound carriageway of the main structure.

The existing surfacing section of the bridge where vehicles braked towards the toll plaza was debonding from the existing Waterproofing sheet system which in turn was debonding from the Steel road deck causing water to ingress the bridge deck and surfacing to brake up.



**Tamar Bridge** Board selected **SL Construction Services** to propose the combined **Eliminator Bridge Deck Waterproofing** and **Gussasphalt** system specifically developed as a combined composite waterproofing and Flexible surfacing system.

The combined system has successfully been installed to distressed structures all over the world evidencing similar waterproofing and surfacing failures to include the Avonmouth Bridge on the M5 where 48,000m<sup>2</sup> was installed in 2008/9.

The new system will provide greater durability and service life than conventional waterproofing and surfacing materials used under traditional UK Bridge Highway specifications.

Pre site planning was undertaken by **SL Construction Services'** in house delivery team which saw a detailed programme developed to manage all off site and onsite work's to include traffic management and working in live traffic conditions. Early planning was essential to guarantee no issues or delays related to traffic flow on to and off the **Tamar Bridge** as the **Tamar Bridge** is the major arterial route in to and from the South West of England.



Works were completed around the clock with seamless co-ordination to include removal of the existing surfacing, cleaning and grit blasting of the existing Steel deck to SA2.5 .Installation of the **Eliminator Waterproofing** and **Gussasphalt** surfacing in dedicated traffic possession.



The project was successfully completed ahead of time and to budget. It represents a technically challenging and innovative solution installed to the highest quality and safety standards by a market leading partnership delivered by **SL Construction Services** who hold a wealth of specialist skill and knowledge to provide bridge asset owners Taylor made solutions for each of their unique bridge structures