



Isle of Sheppy, Swale Crossing

United Kingdom



Project

The Swale Crossing was built to connect the Kent mainland with the Isle of Sheppy in south east England, linking the M2 and M20 motorways with Sheppy via the A249.

The bridge is approximately 1,300m long, 21m wide, and its highest point stands 31m above ground level. The longest span is 92.5m as it crosses the Swale estuary, the old existing A249 and the local railway line.

The bridge is constructed from numerous I-section girders and cross beams and 15% of the steel came from recycled sources as this was an important aspect of the project.

All steelwork was fabricated and painted at the Mabey Bridge facilities in Chepstow, South Wales then transported to site in Kent for erection although minor repairs and field joint repairs were carried out at site.

Sherwin-Williams was asked to supply an anti-corrosion coating system for the project that would satisfy the Highways Agency specifications.

Substrate: Steel blast cleaned to Sa3.

Requirements: 20 years external corrosion protection to the structural steelwork.

Specification: TSA (thermally sprayed aluminium), Transgard™ TG159, Transgard™ TG111V2, Transgard™ TG112, Acrolon™ C137V2.

Area Coated: Approximately 14,000 tonnes of structural steel.

Customer: Mabey Bridge (applicator), Carillion (Main Contractor), Highways Agency (client).

System

Sherwin-Williams worked with Mabey Bridge to deliver a paint system that could be applied in-shop to help maintain productivity whilst providing the long-term anti-corrosive properties that would be essential for this type of project.

Sherwin-Williams offered full specification/technical and practical advice from the early project stages and carried out regular shop and site visits throughout the project to ensure completion on time to the satisfaction of all interested parties.

Product	Highways Agency item number	Product type
Transgard™ TG159	HA Item No. 159	Primer/sealer
Transgard™ TG111V2	HA Item No. 111	Zinc phosphate primer/buildcoat
Transgard™ TG112	HA Item No. 112	Epoxy MIO buildcoat
Acrolon™ C137V2	HA Item No. 168	Gloss acrylic urethane topcoat



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