



# ANTI-CORROSIVE SYSTEMS BRIDGE THE GAPS THROUGHOUT A WHOLE ROAD NETWORK

The M6 toll road was opened in 2002 to allow traffic an alternative route to the busiest and most congested section of the M6, Junctions 3A to 11A.

The toll road is a 27 mile long stretch of a standard three lane motorway which incorporates ten junctions and as part of its construction required a total of 58 bridges to be fabricated to support the project. Forty six of these overbridges utilised structural steel elements that required the application of anti-corrosive protective coatings.

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**THE MAJORITY OF THE BRIDGES SPAN THE TOLL ROAD AND WERE CONSTRUCTED FROM LARGE I-SECTION GIRDERS AND CROSS BEAMS. THE USE OF DE-ICING SALT/GRIT ON THE ROADS DURING WINTER AND THE ASSOCIATED WET SPRAY, CREATES AN AGGRESSIVE MARINE TYPE MICRO-CLIMATE. SHERWIN-WILLIAMS RECOMMENDED A NON-STANDARD HIGHWAY AGENCY PAINT SYSTEM BASED ON GLASS FLAKE EPOXY, WHICH HAS AN EXCELLENT TRACK RECORD IN THE OFFSHORE INDUSTRY, TO PROTECT THE STRUCTURES.**

**APPLICATOR:**  
Mabey Bridge

**MAIN CONTRACTOR:**  
Atkins

**DESIGN ENGINEERS:**  
Arup

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**SHERWIN  
WILLIAMS®**

# M6 TOLL ROAD BRIDGES, MIDLANDS



## SOLUTION

All steelwork was fabricated and painted at the Mabey Bridge facilities in Chepstow, South Wales and was then transported to site in the Midlands for erection. Minor transport and erection damage was repaired on site using the shop applied system.

Sherwin-Williams was asked to supply anti-corrosion coatings system for the project that would protect the structures for a minimum period of 25 years to first maintenance.

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## SUBSTRATE

Steel blast cleaned to Sa2½.

## REQUIREMENTS

25 years external corrosion protection.

## SPECIFICATIONS

Transgard™ TG110, Transgard TG123, Acrolon™ C137V2.

## AREA COATED

46 bridges in total.

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## SYSTEM

Sherwin-Williams worked with Mabey Bridge to provide a paint system that could be applied in-shop to help maintain productivity whilst providing the long-term anti-corrosive properties that are 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.

	Highways Agency Item no.	Product type
Transgard TG110	110	Blast primer/sealer
Transgard TG123	123	Glass flake epoxy
Acrolon C137V2	168	Gloss acrylic urethane finish

## THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems that excel at combating corrosion helps customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including oil and gas, water and wastewater, bridge and highway, steel fabrication, flooring, food and beverage, rail and power, marine and passive fire protection.

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