

A large-scale construction site for the Queensferry Crossing bridge in Scotland. The image shows a long, narrow concrete deck extending into the water, with various construction equipment and workers visible. In the background, another suspension bridge is visible across the water, and the surrounding landscape includes hills and a cloudy sky. A large blue graphic element is overlaid on the right side of the image, containing the text.

Trusted corrosion protection for the Queensferry Crossing, Scotland

The Queensferry Crossing is a stunning piece of modern engineering. Spanning the busy Forth Estuary near Edinburgh on the east coast of Scotland, it has a total length of 2.7 kilometres, making it the longest three-tower cable-stayed bridge in the world. The crossing's road deck is made with over 35,000 tons of steel, that was manufactured in China and the UK and transported to Scotland by sea.

With our coatings protecting four of the world's ten largest cable-stayed bridges – the steel manufacturer Shanghai Zhenhua Heavy Industry Co., Ltd. (ZPMC) knew our coatings were ideal for the job.

“We choose Hempel coatings because we know the paint and we know the service we can expect. The coatings have good and stable performance in corrosion protection, and the technical services are professional, precise and everywhere, providing great support to this project. We have worked with Hempel for many years, with great success”.

Kai Zhao, Project Manager, ZPMC

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At a glance	
Customer	FCBC Consortium
Contractor	Shanghai Zhenhua Heavy Industry Co., Ltd.
Coating systems	Exterior: Hempadur Zinc 17360, Hempadur MIO 47950, Hempthane HS 55613 Interior: Hempadur ZP 47940 Bolted connections: Hempel's Galvosil 15700
Total litres	600,000+
Application	Airless spray



The challenge

The Queensferry Crossing project required close collaboration and coordination between teams on different sides of the world.

The coatings specified needed to be tough enough to withstand impacts and exposure during the 7,700 kilometre journey, and robust enough to protect the bridge from the tough Scottish climate and coastal conditions for years to come.

The solution

We worked with both the steel manufacturer and the owner's advisory engineering team in the UK during specification, to ensure the coating systems were up to the task. Our technical service teams worked at the steelyard in China and the construction site in the UK to oversee the application and ensure the coatings were applied accurately and efficiently.

Our customer, ZPMC is confident in the results and the construction company, FCBC Consortium are assured of reliable corrosion protection for this iconic crossing for many years to come.



All photographs are courtesy of Transport Scotland

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