

Wadebridge Estuary Piles

Case study

Focus product: Intercrete® 4840, Intercrete 4844

Location: Cornwall, UK

Client: Environment Agency

Contractors: May Gurney & Concrete Repairs Ltd

Summary: Corrosion protection of sheet steel piles in a tidal environment.

Background

Straddling the River Camel on the North coast of Cornwall, the town of Wadebridge is the gateway to the picturesque Camel Trail. The bridge, after which the town takes its name, was built in 1460 and is reputedly built on foundations of wool.

Steel sheet piles form a tidal defence on the south west bank of the river for a 200m section running seawards from the bridge. The river experiences large tidal rises and as a result the steel was suffering from significant corrosion. The Client required an anti-corrosion coating that could be applied without extensive and costly coffer dams.

The solution

Intercrete 4840, a two component polymer and epoxy modified coating was chosen as it could be applied to damp substrates and subjected to immersion just two hours after application. The steel was prepared using ultra-high pressure water jetting and the gap between the clutches filled with Intercrete 4844. Standing water was removed prior to the application of Intercrete 4840 in two 1mm coats during a single shift using a Graco G-Max II airless spray unit.

