

PROJECT

Cowden Railway Bridge, Lockerbie,

SUMMARY

Repair of West Coast mainline rail bridge

PRODUCTS

Steel Reinforcement Protector 841 Bonding Bridge 842 Monolite

CLIENT

Dumfries & Galloway Council

CONTRACTOR

Frank Carruthers & Son

BACKGROUND ▶

Dating back to 1830, the West Coast main railway line is one of the United Kingdom's principal routes leading to London and on to Europe.

A concrete structure that takes the railway line underneath the A74, Cowden railway bridge had been suffering from delamination which had resulted in the damaged concrete exposing the steel reinforcement. The Client demanded a long term, maintenance-free solution.

THE SOLUTION ▶

Monolite - a low density, high build, shrinkage compensated, polymer modified mortar - was specified as it is expressly designed for the repair, rendering and profiling of both vertical and horizontal surfaces. It forms a rapid hardening, lowdensity mortar, with enhanced polymer properties. As some areas of steel had been exposed to the elements, it was necessary to first apply Steel Reinforcement Protector 841 to provide a corrosion preventative, flexible coating to the steel. Bonding Bridge 842 was then used to enhance the bond between the high porosity concrete and the Monolite repair.





EMS 597350

Environmental

Flexcrete Technologies Limited Tomlinson Road • Leyland Lancashire • United Kingdom

PR25 2DY



