

CASE STUDY

WHERE? Ipswich Docks

WHEN? 2005

WHO WAS THE CLIENT? Associated British Ports



OVERVIEW:

Cracks in the existing concrete RoRo ramp slab were sealed. Specialist asphalt geosynthetic installer, Foster Contracting sprayed the specified 1.1 litres/m² of 160/220-pen bitumen bonding coat onto the concrete surface.

Fosters then machine installed the Glasstex P100, using their specially developed Geosynthetic Applicator. The Glasstex is laid with its glass reinforcing fibers upwards and the Applicator's brushes ensure good adhesion to the hot bitumen bonding coat. Rolls were lapped by 150mm

As soon as the Glasstex had been laid it was ready for placement of the 55/10 hot rolled asphalt (HRA) surfacing. This was laid in a single 45mm thick layer using a conventional paver.

WHAT WERE THE CHALLENGES?:

No 1 Roll-on Roll-off (RoRo) ramp, for the Ostend ferry was constructed in 1973 with a 200mm thick concrete pavement. The concrete surfacing had gradually settled behind the sheet piled dock wall causing cracking and deformation. The pavement needed strengthening, an improved asphalt running surface and the need to restrict the propagation of reflective cracking through the asphalt from the underlying concrete expansion joints.





THE SOLUTION:

Glasstex P100 was installed directly onto the concrete slabs to control cracking and a 45mm thick hot rolled asphalt overlay was machine laid on top.

BENEFITS TO CLIENT:

Economic strengthening of a Dock RoRo ferry ramp. The old concrete slab was overlaid with a thin reinforced asphalt surface.

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