

Reinforced asphalt overlay at Ipswich Docks, RoRo Ramp, UK 2005



BENEFITS OF THE TENSAR SOLUTION

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

PROJECT BACKGROUND

No 1 Roll-on Roll-off (RoRo) ramp, for the Ostend ferry was constructed in 1973 with a 200 mm 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 TENSAR 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.

TECHNICAL PROJECT DESCRIPTION

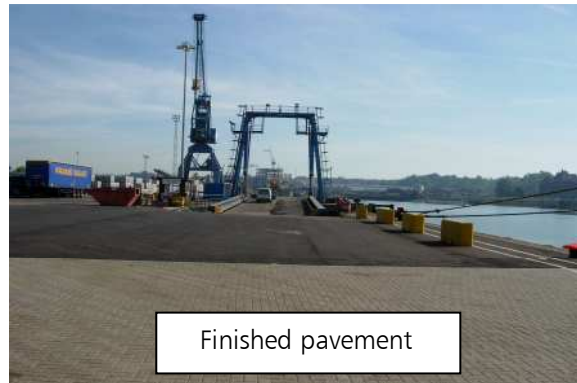
Cracks in the existing concrete RoRo ramp slab were sealed.
Specialist asphalt geosynthetic installer, Foster Contracting sprayed the specified 1.1 litres/m² of 160/220-pen bitumen bonding coat onto the concrete surface.



Fosters then machine installed the Glasstex P100, using their specially developed Geosynthetic Applicator.

The Glasstex is laid with its glass reinforcing fibres upwards and the Applicator's brushes ensure good adhesion to the hot bitumen bonding coat. Rolls were lapped by 150 mm.

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 45 mm thick layer using a conventional paver.



CONTRACT DETAILS

Installation Contractor Foster Contracting Ltd	Main Contractor Waveney Asphalt Co Ltd	Specifier Associated British Ports	Client Associated British Ports
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