



CASE STUDY

Project: Port of Tyne 15th Anniversary
Client: Port of Tyne Authority
Contractor: Rainton Construction Ltd
Paver Type: Concrete Block Paving
Area: 15,904m²
Site: Tyne Dock South Shields
Product: Resiblock '22'
Date: August 2002



The Site

There has been a Port on the Tyne at least since the Romans used their settlement of Arbeia to supply the Garrison of Hadrian's Wall. Around 1200, stone-faced, clay-filled jetties were starting to project into the river in Newcastle, an indication that trade was increasing. As the Roman roads continued to deteriorate, sea travel was gaining in importance. The Port of Tyne is the navigation authority for the tidal reaches of the River Tyne, from the mouth to the Tidal Stone at Wylam, a distance of 17 miles. The Port handles conventional and bulk cargoes at the Riverside Quay.

The Challenge

In 2002, resident Engineer, David Profit, had (over a number of years) seen significant movement within considerable areas of small element flexibly laid paving at the Port of Tyne resulting in a high level of maintenance (lift and relay of CBP). CBP was the preferred wearing course comprising of 15,904m² in connection with Phase 3; however, concerns were expressed with regard to jointing sand erosion and water infiltration, coupled with the "pumping and sucking" action of vehicular movement on site ultimately resulting in de-stabilised paving.

The Solution

The Port of Tyne Authority investigated possible solutions that were available both in the U.K. and worldwide, with Resiblock short listed, and ultimately specified, with subsequent installation of Resiblock '22' in August of 2002. Resiblock Limited were able to demonstrate their significant experience in stabilising small element heavy duty flexibly laid paver pavements, with their expertise built upon the stabilisation of Aircraft Aprons. In addition, Resiblock were able to demonstrate to the Port of Tyne the successful stabilisation of the paver pavement at the Port of Salalah, Oman, totalling some 465,000m². In the following decade and a half, Resiblock '22' has withstood the test of time, traffic, cleaning regimes and environmental factors to provide continuing stabilisation to the 15,904m² site. This 15-year anniversary has only gone to enhance the reputation of Resiblock '22' as an extremely durable and hard-wearing sealer.

Benefits at a Glance:

- One pack material
- Easy application
- Prevents sand erosion from paver joint
- Prevents the ingress of water and fuel infiltration to the sand laying course
- Maintains structural stability under heavy duty trafficking
- Elastomeric bond works in tandem with paver system



Sponsor

www.resiblock.com

