

# Wightlink Terminal Upgrade

Concrete admixtures used in construction of a ferry terminal development



Our reference in Portsmouth (United Kingdom): Wightlink Terminal Upgrade

## The background

Wightlinks Ferries' decided on a £45million investment in its key Portsmouth Gunwharf-Fishbourne route.

The company upgraded its current terminal so that it now uses two-tier boarding ramps to load and unload vehicles on its largest ferry St Clare, which is making its operations faster and more efficient on both sides of the Solent

## The challenge

Initially the terminal had a single floor loading facility which Wightlinks Ferries' wanted to upgrade to a two-floored facility.

The biggest challenge on this project was to construct and build the second level whilst the harbour was still operational, especially during the busy summer months.

### Project:

Wightlink Terminal Upgrade

### Location:

Portsmouth

### Main contractor:

Trant Engineering Limited,

### Concrete producer:

Kendall Group

### Market sector:

Ready-Mixed Concrete

### Products used:

MasterPolyheed 410

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### Our solution

Master Builders Solutions provided MasterPolyheed 410, a high range water reducing admixture to Kendall Group for their concrete mix.

The specification was to provide a consistent concrete mix that could be laid quickly and within set time constraints.

MasterPolyheed 410 was used due to its ability to increase/extend workability, increase compressive strength and optimise cement economies. Additionally, its wide dosage range enables water reductions to produce a durable concrete with reduced permeability and water penetration.

This upgrade allowed the new double deck boarding ramps to be used which, reduced queues and cut congestion in Portsmouth city centre. It also enabled Wightlink to run the vast majority of their sailings on time during the busy summer holidays.



### The customers benefit

- Competitively priced quality concrete to their customer
- MasterPolyheed 410 was used in the concrete mix that could be laid quickly and within the time boundaries where mix consistency was paramount.
- Using this concrete mix, the second level was constructed whilst the harbour was still operational.

### Project facts at a glance

- Over 30,000 litres of MasterPolyheed 410
- Competitively priced quality concrete
- Ferry terminal kept operational during the upgrade
- The upgrade reduced queues and cut traffic congestion in Portsmouth city centre