

## Success Stories

Instarmac Group Plc is an award winning UK market leader in the formulation, manufacture and supply of cement, resin and bitumen based products



# Luas Tram Line, Dublin



**CONTRACTOR:**  
**SITE:**  
**PROJECT:**  
**MATERIALS USED:**

Civic Group Ltd  
Luas Tram Line, Dublin  
Repair of damaged concrete  
QC10 F

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## Luas Tram Line, Dublin

### Introduction:

The Luas is a state of the art Light Rail transport system in Dublin, providing passengers with a high-capacity service that is fast, frequent and reliable. It opened in 2004 and currently has 54 stations covering 23.7 miles of track, carrying approximately 30 million passengers a year.

A section of embedded track concrete shoulder, adjacent to the road surface, was under stress because the installation material had failed. Ultracrete recommended the use of its QC10 F flowable, fast set, rapid strength concrete to resolve the issue.

### Action:

QC10 F is specifically formulated for back filling around ironwork (and composite), including gullies and manhole frames and can also be used for surface repairs. It requires only the addition of water on-site to form a high strength concrete, achieving a compressive strength of 20N/mm<sup>2</sup> after just 90 minutes! It sets in 10-20 minutes and is suitable for applications from 30-250mm in one pass.

In this instance it was used as a surface repair and was installed by maintenance contractor Civic Group Ltd, who carried out the reinstatement overnight during a tight time frame of just four hours, to ensure minimal disruption to the tram and its commuters. Existing material was broken out, before QC10 F was poured into the void around the girder rails.

QC10 F is HAPAS approved by the BBA as part of Ultracrete's manhole reinstatement system which is independently tested by a UKAS accredited laboratory to verify its performance. The system comprises of a range of bedding mortars, back fill concrete, cold lay asphalt and a bitumen spray. All components offer, where appropriate, impressive tensile and compressive strengths thus prolonging the service life of the repair.

### Results:

The Luas tram line was re-opened within the allotted window thanks to the rapid setting properties of QC10 F.

## MATERIALS USED

QC10 F



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