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

# Blackwall Tunnel, London



**CONTRACTOR:**

BAM Nuttall

**SITE:**

Blackwall Tunnel, London

**PROJECT:**

Reinstate 150 manhole covers and gullies

**MATERIALS USED:**

Envirobed HA104®, QC10 F, SCJ,  
Instant Road Repair

## Blackwall Tunnel, London

### Problem:

Transport for London (TfL) began a multi million pound refurbishment of the northbound carriageway of the Blackwall Tunnel in east London in February 2010. The tunnel built in 1897, is part of London's Victorian Legacy. It serves as one of the key east London river crossings and is used by over 50,000 vehicles a day. As this number continues to rise, so is the need to maintain its safety systems and equipment.

### Action:

TfL awarded civil Engineering Contractor, BAM Nuttall, the contract for the refurbishment of the northbound carriageway. Ultracrete's BBA/HAPAS Approved Manhole Reinstatement System was specified to reinstate some 150 manhole covers and gullies throughout the tunnel.

The system comprises of bedding mortars that meet HA104 specification and the reknown Instant Road Repair cold lay asphalt concrete that meets HAPAS approval for 1st time permanent repairs to footways, cycle tracks and class 3 & 4 carriageways.

The existing gullies and manhole covers are being broken out, old debris removed and the brickwork cleaned down before Envirobed HA104®, Ultracrete's high performance bedding mortar, is applied. The gullies/manhole covers are then re-positioned onto the mortar. Ultracrete's QC10 F, rapid set flowable concrete, is applied to the surrounding void and surfaced using Ultracrete's SCJ, bitumen cold joint sealer and tack coat and Ultracrete's Instant Road Repair.

The scale of the project is complex involving many different elements and a tight work window, in order to minimise closures to the tunnel and disruption to traffic. Ultracrete's BBA/HAPAS Approved Ironwork System was chosen because of the rapid setting qualities of its bedding materials and their excellent workability.

### Results:

The project involves refurbishing and enhancing the tunnel's emergency walkways and communication systems. The safety upgrade is due to complete in time for the London Olympic Games in 2012.

## MATERIALS USED

Envirobed  
HA104®



QC10 F

SCJ



Instant Road  
Repair

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