

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

## Dublin City Council



**CONTRACTOR:**

Eirecom Telecommunications

**SITE:**

Parnell Road, Grand Canal, Dublin

**PROJECT:**

Reinstatement of Failed Manhole

**MATERIALS USED:**

BBA/HAPAS Approved Ironwork Reinstatement System



An **INSTARMAC**® Brand

## Dublin City Council

### Problem:

The city of Dublin, Ireland's largest city and its capital is the home to over one million people. The city attracts thousands of people each year and is well known for its lively and friendly culture. With the population and number of tourists growing year on year, consideration needs to be given to the effect that this is having on their roads. More vehicles, usually equals more road maintenance activity which often results to an increase in unhappy commuters. Due to an increase in traffic volume and the use of sub-standard materials, Dublin City Council had noticed a number of failed manholes that needed to be repaired. The manholes were associated with Eirecom Telecommunication, therefore they approached Emtex Ltd, Irelands Highways specialist supplier, who recommended Instarmac's recently BBA/HAPAS approved Ironwork Reinstatement System.

### Action:

The failed manhole, located at a busy crossroads on Parnell Road, which is a major road in Dublin, was excavated ensuring that all loose debris was removed. M60, a rapid set bedding mortar was chosen to bed a layer of block work in the chamber. PY4, a polyester resin mortar was then chosen to bed the ironwork as it complies with the required tensile and compressive strengths as stipulated in the Highway Agency Design Manual for Roads and Bridges HA104/02. QC10, was chosen to backfill the reinstatement, as the rapid strength concrete provides the ideal base for the final surfacing macadam. The next step to this system was to seal the vertical edges of the ironwork reinstatement to instantly prevent the ingress of water, using SCJ, bitumen cold joint sealer. The final stage of the reinstatement involved the use of Instant Road Repair (IRR). The BBA/HAPAS approved cold lay macadam is designed for first time permanent repairs to type 2/3/4 roads.

### Results:

The ironwork reinstatement was completed in a very short space of time is expected, resulting in very little disturbance to passing traffic. The system has an anticipated service life of 5 years, which will mean long-term cost & time savings for the local authority. Representatives from the Instarmac Group plc, when revisiting the reinstated manhole 3 years on, reported that the manhole was still going strong showing no signs of failure as expected!

## MATERIALS USED

Envirobed



PY4

M60



QC10

SCJ



IRR

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