

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

## Buckingham Highways Contract



**CONTRACTOR:**

Fitzpatrick

**SITE:**

Buckingham

**PROJECT:**

Buckingham Highways Contract - Marlow Hill

**MATERIALS USED:**

Envirobed, QC10, Instant Road Repair

## Buckingham Highways Contract

### Problem:

Contractors Fitzpatrick who work in partnership with Buckingham County Council have been under large amounts of stress due to increased traffic volume, and heavy loads using smaller 'A' roads. Ongoing repairs have been costly to the council as numerous site visits have taken place to ensure road maintenance.

Fitzpatrick were in need of products that would provide them with high compressive, tensile and flexible strengths which could be laid as first time permanent reinstatements able to accommodate the heavy traffic and high levels of stress.

### Action:

David Youell, Area Sales Manager for Ultracrete, introduced the products Envirobed, QC10 and Instant Road Repair to the Council and demonstrated their advantages as a first time permanent reinstatement system for heavily trafficked areas. After the success of the meeting David then introduced the products to contractors Fitzpatrick and carried out a number of on-site training sessions for their workforce. Due to their ease of use and user-friendly pack sizes the products were an instant hit with the workforces.

### Results:

Envirobed is an ideal alternative to resin-based materials (containing recycled glass) and is able to achieve a compressive strength of 50N/mm<sup>2</sup> and a tensile strength of 5.8N/mm<sup>2</sup> after three hours, as well as a minimum workable life of fifteen minutes. Uniquely, Envirobed's tensile strength is about twice as high as that of other setting cementitious mortars and can be used in wet weather conditions. QC10 is a rapid strength concrete designed for thick section concrete repairs and backfilling of carriageway ironwork that reaches a compressive strength of 12.0N/mm<sup>2</sup> after 1 hour with a workability time of 5-10 minutes, giving a setting time of 10-20 minutes. Instant Road Repair is a renowned BBA/HAPAS approved cold lay macadam able to provide an instant first time permanent reinstatement which, when compacted, can be trafficked immediately.

The products were being used in conjunction with one another and Fitzpatrick were given a system that resulted in only one visit per reinstatement with no year-to-date failures on any of the reinstatements installed with Ultracrete products.

Fitzpatrick are very pleased with the speed and performance of the products and have gone on to utilise them in gully maintenance as well as road maintenance.

### MATERIALS USED

Envirobed



QC10

IRR



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