

**Tensar Case Study** Ref 203

# Dickson Road, Blackpool, Glasstex overlay reinforcement UK. 1999



Tensar Case Study

## BENEFITS TO CLIENT

11,000 m<sup>2</sup> of Glasstex was successfully installed in only 3 days, despite the winter period so minimising construction time and traffic disruption. The asphalt overlay life has been extended and after 8 years the pavement shows no sign of distress.

## THE PROBLEM

The central 5m of road consisted of a concrete slab with tram rails set in, some 50mm below the surface. The remaining width of carriageway was asphalt on sandstone pitching (setts). These different sub-strata resulted in differential movement and reflective cracking in the asphalt.

## THE SOLUTION

All the existing asphalt was planed off and Glasstex P100 was machine installed on to a 25mm regulated surface and covered with a 40mm surfacing layer. The Glasstex composite consists of a paving felt that acts as a strain alleviating membrane interlayer (SAMI) which is factory stitched to a grid of high tenacity glass fibre yarns that provide additional tensile strength to the overlay.

## PROJECT DESCRIPTION

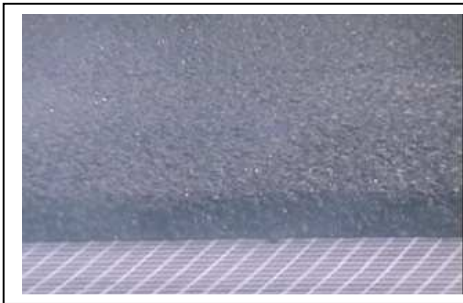
The existing asphalt was milled off to a depth of 50 mm and a pre-regulated asphalt surface 25mm thick was placed. 200 pen bitumen spray was then applied and 11,000 m<sup>2</sup> of Glasstex P100 was installed using a purpose built lay-down machine for speed and accuracy by specialist installer AGS Ltd, now operating as Foster Contracting Ltd. A 14mm stone mastic asphalt (SMA), 40mm thick surfacing course was then placed directly on to the Glasstex.



*Glasstex is rapidly machine installed*



*Surfacing is placed directly on Glasstex*



*40 mm thick SMA surfacing*



*No sign of cracking after 8 years in service*

Mr Bob Sutcliffe, Senior Engineer with Blackpool Borough Council reported that "After over 8 years in service we are happy with the performance of the Glasstex reinforced overlay which is showing no signs of the re-emergence of cracking problems. We would certainly consider the use of this product in similar circumstances"

## CONTRACT DETAILS

### Client & Specifier:

**Blackpool Borough Council**

### Contractor:

**Tarmac National Contracting Ltd  
(formerly Tarmac Johnston Ltd)**

### Glasstex Installer:

**Foster Contracting Ltd  
(formerly AGS Ltd)**



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