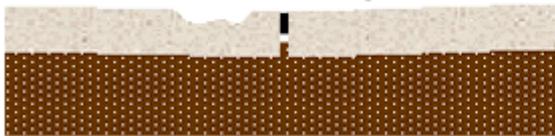


Reflective Cracking – St George’s Barracks MoD North Luffenham, Rutland, UK 2007

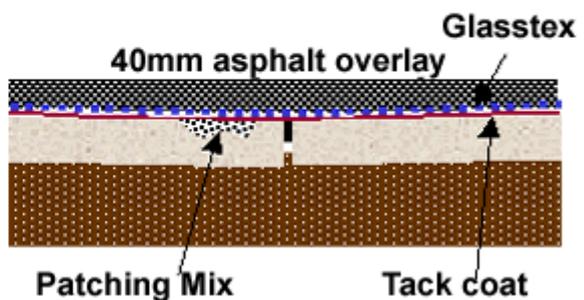
The client wished to upgrade a former airport apron into a military equipment display and training yard

Existing Condition

Concrete slabs (3x3m) uneven surface with some potholes



Rehabilitation Solution



BENEFITS TO CLIENT

Optimum solution to a reflective cracking challenge by adding the minimum thickness of asphalt overlay and so making little change to the pavement finished road level.

THE PROBLEM

The airport’s old concrete slab apron had become uneven and developed potholes due to localized surface disintegration. The client required an economical solution which would provide a smooth surface.

THE SOLUTION

After filling the potholes Glasstex® paving composite was installed on to the existing concrete before laying a 40mm thick asphalt overlay. The Glasstex is designed to inhibit the propagation of reflective cracking.



Joints cleaned, edge planed to tie in Levels and surface swept clean of Loose dust and debris

160/220 pen bitumen layer sprayed at 160° at a rate of 1.1 l/m²

Glasstex applied to entire area

PROJECT DESCRIPTION

The client wished to upgrade a former airport apron into a military equipment display and training yard. The existing surface consisted of old concrete slabs, approximately 3m x 3m. In several areas the surface was breaking up and potholes were developing: the surface evenness was unacceptable.

The surface was brushed to remove loose materials and the potholes were filled with a patching mix. 160/220 Pen bitumen was then sprayed at 160°C at a rate of 1.1 l/m² onto the surface and Glasstex[®] was installed on to it using a specialised lay down rig. A 40 mm asphalt overlay was then applied directly over the Glasstex.



Dave Hulett, Senior Technical Officer of Babcock DynCorp reported:

'We were very pleased with the professional attitude of Hanson Contracting, Tensar International and Foster Contracting, which was adopted for the works at St George's Barracks and would have no hesitation in recommending them to others. We were also very satisfied with the way in which, as the client's consultant, we were kept informed and up to date with progress. The job went smoothly and work was carried out without any delays.'

CONTRACT DETAILS

Client: Ministry of Defence

Consultant: Babcock DynCorp

Contractor: Hanson Contracting

Asphalt Reinforcement Installer: Foster Contracting Limited

Tensar[®]

THE COMPANY
YOU CAN BUILD ON™

Tensar International Limited
Cunningham Court
Shadsworth Business Park
Blackburn BB1 2QX
United Kingdom
Telephone: +44 (0) 1254 262431
Facsimile: +44 (0) 1254 266867
Email: info@tensar.co.uk
www.tensar-international.com

FCL
Foster Contracting Limited

Foster Contracting Limited
Head Office and Southern Depot
Maldon Road
Kelvedon
Colchester CO5 9BA
Essex
Telephone: 01376 570345
Email: kelvedon@fostercontracting.co.uk
www.fostercontracting.co.uk