

CASE STUDY

WIGMAN ROAD, NOTTINGHAM

Permatrack Inlaid Crack Sealing System

PERMATRACK



Wigman Road on the outskirts of the City of Nottingham is a major thoroughfare for both light and heavy traffic. Built originally of concrete on mud flats by Italian prisoners of war in the 1940's, the road was subsequently black topped. However, City engineers have been faced with almost non-stop maintenance ever since, particularly in the areas of high stress at roadway junctions, traffic islands and areas of relative cracking where the asphalt surfacing passes over the underlying concrete joints.

The City was faced with miles of deteriorating roadway almost to the point of it becoming unusable. This had to be brought back to a surfacing of suitable standard to perform as a carriageway capable of withstanding the heavy traffic associated with a major thoroughfare.

Trials were conducted by a number of companies to repair areas of reflective cracking and the sample areas were monitored for overall performance. After several months of evaluation, Permatrack from Permanite was selected for over 14,000 linear metres of joint repairs.

The system, incorporating Permatrack PSB and Permatrack H, provided a repair capable of accommodating high levels of movement and at the same time provide a hard wearing and long lasting surfacing.

Project Sector: Public Sector

Client: Nottingham City Council

System: Permatrack Inlaid Crack Sealing System

Products Used: Permatrack PSB
Permatrack H

Date: January - May 2002

Contact: Denzil Udell



After removing the damaged surfacing and cleaning all exposed surfaces, Permatrack PSB was applied to ensure good adhesion between old and new surfacing. Permatrack H high modulus polymer modified asphalt was then installed up to the level of the existing roadway surfaces, and pre-coated chippings were then rolled into place to provide the necessary surface texture and skid resistance.

The completed joint infills brought the roadway back to a usable surface with very little disruption to the flow of traffic or disturbance to local residents,



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