

**ULTILOW**

Proven performance

M180/M18 NORTH INGS INTERCHANGE

The challenge

Reconstruction of the M180/M18 North Ings interchange roundabout to restore the pavement life for many years to come. The work was part of a package of 12 schemes in Area 12 secured by Tarmac National Contracting's Cross Green office and involved reconstruction of large sections with over 2,000t of EME2. The scheme required a multiple layer construction in a tight working window, Tarmac proposed to use low temperature asphalt EME2 to permit as early an overlay as possible. Aone+ wanted to minimise disruption to network users and the busy service area just off the junction and using the LTA was the only way this scheme could have been delivered to such a tight program.

Our solution

The scheme on the M18/M180 junction involved reconstruction of the roundabout over a full weekend closure. With over 3,000t of material required to complete the works over a short closure period, it was vital to be able to overlay the new construction layers at the earliest opportunity.

Results and benefits

EME2 is a higher binder material prone to deformation from construction traffic if overlaid when hot. ULTILOW EME2 was proposed by Tarmac as the solution to reducing the risk of damage to the new construction during the build. A departure from standard permitting a lower rolling temperature was supported by the Highways Agency. The ULTILOW EME 2 was installed in two 120mm layers, followed by a 30mm layer of 10mm ULTIFLEX surface course. The Contracting team worked in shifts over 24 hour period to ensure the scheme was completed on time.