

PROVEN PERFORMANCE

The ultimate solution to reflective cracking and road surface deformation, Dalkeith Road, Edinburgh

ULTILAYER

Product ULTILAYER
Client EDINBURGH CITY COUNCIL
Main Contractor TARMAC CONTRACTING
Location DALKEITH ROAD, EDINBURGH
Date of completion AUGUST 2018

THE CHALLENGE

The busy bus lane on the Dalkeith Road, one of the main routes into Edinburgh, required resurfacing. The existing hot rolled asphalt (HRA) surface was showing signs of cracking and beginning to fail. The new surface would need to withstand constant impact from buses and deliver long term durability to avoid future failure and maintenance requirement. Given the importance of this route to local transport, it was important to keep road closures to a minimum. As a result the client engaged with Tarmac Contracting to find out whether they could recommend a resurfacing solution that could be completed in a single night shift and reopened to the public the following day.

OUR SOLUTION

After discussions between the client, Tarmac Contracting and Tarmac's local Technical Product Support Manager, ULTILAYER stone mastic asphalt was recommended as an alternative to the existing HRA. ULTILAYER uses a polymer modified binder for a more flexible and durable surface that resists cracking and deformation from heavy trafficking. It can be laid quickly in a deeper layer to significantly speed up installation and reduce programme times. ULTILAYER has been in use for over 10 years and has demonstrated impressive durability on some of the UK's busiest and most challenging roads.

RESULTS AND BENEFITS

As planned 200m² of the existing surface was planed out and replaced with around 20 tonnes of ULTILAYER binder course installed at 60mm and 13 tonnes of ULTILAYER surface course. Using this approach helped to simplify site logistics, avoiding the need for the chipping machines that would have been required to install HRA. It allowed work to be completed quickly, in just one night shift and reopened with minimal disruption to this important public transport route. The client was impressed with the results and are now monitoring the site with a view to using ULTILAYER at other locations in the city.

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