

# PRESERVATION CASE HISTORY

## UK HIGHWAYS LIMITED – M40

REFERENCE	M40 – UK HIGHWAYS
<p><b>BACKGROUND</b></p>	<p>The maintenance strategy for the M40DBFO Project Road had historically involved large areas of Surface Course replacement. In 2007 the decision was taken to trial the preservation product Rhinophalt. Following successful results it was decided to revise the maintenance strategy, to include Rhinophalt application, in an attempt to minimise the amount of Surface Course replacement necessary until the completion of the concession.</p> <p>In 2007 the existing surfacing was a mixture of HRA Surface Course up to 16 years old and more recent Surface Course (TSCS) replacement. The Rhinophalt application, in conjunction with crack and joint sealing, commenced in 2008 and to September 2011 a total of 2.5million square metres have been completed.</p>
<p><b>DATE OF COMPLETED APPLICATION</b></p>	<p>Between April 2008 and September 2011</p>
<p><b>SECTOR</b></p>	<p>Highway</p>
<p><b>PAVEMENT SURFACE</b></p>	<p>HRA and TSCS</p>
	OUTCOME
<p><b>REPORT CONCLUSIONS</b></p>	<ol style="list-style-type: none"> <li>1. Significant in the performance is that, within all areas treated over the past 4 years, the anticipated interventions for potholing, ravelling and other defects have been at almost zero. This includes the postponement and possibly the elimination of previously anticipated resurfacing programmes.</li> <li>2. Having undertaken an associated "joint sealing" operation at the same time as applying Rhinophalt, it has also been recorded that there has been almost zero occurrences of joints "opening" and subsequent repair.</li> <li>3. Performance and technical analysis has demonstrated significant success and UK Highways are now looking to repeat treatments to all areas from 2013 onwards.</li> <li>3. In addition to the financial advantages, there have been notable benefits to motorway users who have experienced significantly less disruption than would have been originally forecast.</li> </ol>

	ADDITIONAL INFORMATION	
<b>CONTACTS</b>	John Gardner, General Manager & Gareth Morris, Consulting Engineer	
<b>SITE SURVEY</b>	Yes	The site is inspected annually
<b>PRE TESTING</b>	Yes	Second Application
<b>TESTING</b>	Yes	Binder Extraction, PEN, Softening Point, Vialit Cohesion.
<b>PHOTOGRAPHS</b>	Yes	

