

PRESERVATION CASE HISTORY

SUMMARY FROM SURREY COUNTY COUNCIL ASSET PLANNING GROUP REPORT – SEPTEMBER 2011

REFERENCE	ABERCONWAY ROAD, LONDON BOROUGH OF MERTON
BACKGROUND	<p>Aberconway road is a busy urban road which was surfaced with a thin surfacing in 2001.</p> <p>This report looked at a particular supplier's material used on a section of road to treat with a preservative in 2002 and an area within this section received a further application in 2009.</p> <p>Surrey Materials Laboratory analysed the binder quality properties of the treated and untreated section of road in an attempt to explore the advantages claimed. The preservative examined is the only one on the market that has been awarded a HAPAS certification.</p>
DATE OF COMPLETED APPLICATION	September 2002 and September 2009
SECTOR	Highway
PAVEMENT SURFACE	Thin Surfacing Material

	OUTCOMES
REPORT CONCLUSIONS	<ol style="list-style-type: none"> 1. Treated section shows no signs of ravelling, no loss of aggregate, little cracking and has developed no potholes over the life of the surface. 2. Pavement adjacent has been re- surfaced due to cracking loss of aggregate and potholing. This newer surface is now visually worse than the treated sections. 3. Technical analysis shows the binder in the treated area "demonstrates the properties of a 3 year old pavement". 4. Cost savings illustrated in this report are in the order of 30% during the structural life of a road. These savings are persuasive on their own however the value to be gained is much more than this. 5. At a time when the durability of thin surfacing is being questioned and the value gained by the use of these materials is under review the availability of a preservative solution is ideal. At present we lose the advantages of using negative textured materials when we surface-dress them. Preservative allows us to fully utilise the beneficial features of the materials we are paying for throughout their whole life. 7. We should treat all SMA type materials that have been placed on our roads more than one year and less than three years ago. This will secure the asset that is still in very good condition. 5. Savings in the order of £500,000/annum are available, with the additional value to the customer being much greater.

	ADDITIONAL INFORMATION	
CONTACT	Andrew Edsar, Merton BC – Phil Parker Surrey CC	
SITE SURVEY	Yes	The site is inspected annually
PRE TESTING	Yes	Second Application
TESTING	Yes	Binder extraction, PEN, Softening Point, Vialit Cohesion.
PHOTOGRAPHS	Yes	The site is photographed annually



December 2008 - 7 years old & 6 years after treatment



December 2008 - 7 years - untreated



February 2010 – 10 years old and 1 year after second treatment



February 2010 – Untreated – 10 years old and 3 years old