

Rejuvopatch: award-winning approach to repairing potholes

CASE STUDY: URGENT MAINTENANCE WITH LIMITED DISRUPTION	BAM NUTTALL & CHESHIRE WEST AND CHESTER COUNCIL	2009 – TO DATE
<p>BACKGROUND</p> <p>Over the last three years JPCS has worked closely with Cheshire West and Chester Council applying <i>Rejuvopatch</i> as a solution to repair potholes, as part of an ambitious highway and infrastructure renewal and maintenance investment programme.</p> <p>Rejuvopatch is an unique pot hole/carrageway defect repair product which provides a flexible, durable and cost-efficient repair and enhancement of carrageway assets. JPCS' <i>Rejuvo</i> range of products is used extensively on footways and carrageways around the UK by many Local Authorities including Dudley Metropolitan Borough Council, Telford & Wrekin Council, Surrey County Council and East & West Sussex County Council.</p>		
<p>ISSUES</p> <p>Areas throughout the county, including Chester City, Waverton, Guilden Sutton, Bunbury, Malpas and Hampton Heath had a wide range of carrageway defects, including poor utility reinstatements, surface course oxidisation, fretting and numerous potholes, all requiring maintenance with limited disruption.</p>		
<p>SOLUTION</p> <p>After a visit to the site it was agreed that the innovative <i>Rejuvopatch</i> would be the best product to address the defective areas of carrageway. A schedule of work was developed in line with the client's requirements.</p> <p>All affected users were informed of the planned works. Initial site preparation was carried out to clearly mark the area that needed patching. The site was then cleaned to remove dirt and debris to ensure optimum adhesion and a tack coat was applied where required. The perimeter of the patches was taped prior to application, to ensure clean edges. The <i>Rejuvopatch</i> was specifically designed to address the local site requirements, mixed on site and hand applied in two passes to the area. The patch was then finished by brushing and the tape removed.</p>		
<p>SUCCESSFUL DELIVERY</p> <p>The innovative <i>Rejuvopatch</i> has delivered a number of benefits, including:</p> <ul style="list-style-type: none"> • Permanent patch repair to defective areas of carrageway, using a tried and tested process • Prevention of further deterioration around the defect without the need for expensive and disruptive reconstruction • Manual operation which does not use excessively large or noisy machinery • All the required plant and material for a project can be loaded onto a single large heavy goods vehicle and transported to the worksite • The laying process uses easily portable, manual machinery that can access difficult, restricted access sites • Since the process is both manual and cold, there is very little aroma during the resurfacing operation • Fast installation • Minimal or no applicable waste – the process contains no harmful materials and does not 		

constitute an environmental hazard

- Environmentally-friendly process, cold applied, delivering significant reductions in CO2 emissions
- Local community benefits: the process was carried out safely, with awareness of the local surroundings and heritage, and with minimum disruption to road users, pedestrians and local residents
- The area of carriageway was only closed for a short period of time, ready to drive on just two hours after the works had been completed, whereas the potential disruption caused by full reconstruction would be significantly increased
- The finish of the product is both aesthetically pleasing and hardwearing, permanently arresting deterioration and oxidation
- Cost effective, with significant cost/budget savings - can be installed for 20% of the cost of full reconstruction
- Improved public perception
- Dramatic cuts in the whole life maintenance costs across carriageway assets.

EVIDENCE OF IMPROVEMENT

By selecting and using the innovative *Rejuvopatch* system, JPCS provided a permanent patch repair to defective areas of carriageway, using a tried and tested process. The finish of the product is both aesthetically pleasing and hardwearing, permanently arresting deterioration and oxidation.

Overall, it was a fast, long lasting and cost-effective solution that met the immediate and longer term requirements of the client.

The Council also received a national award for the standard and quality of the work in filling in reported pot holes from the UK National Cyclists Organisation, also reaching the top of the league for both the 'speed of fixing' and 'quality of repairs' category (People's Vote).

"Our focus is on asset management and value for money. We undertake permanent repairs where and whenever possible making sure that consideration is given to the treatments to ensure that they are appropriate to the road type and the longevity of the treatment. The *Rejuvopatch* product has flexibility and has been used over a number of years in the urban areas with great success." (Kevin Carrol, Highway Manager for Cheshire West and Chester Council)

"Rejuvopatch provides another example of innovation and creativity within JPCS leading to a tangible product." (The British Quality Foundation, 2011 UK Excellence Award Feedback Report)