

Repave is a hot in-situ road recycling process



Repave, A64 Malton Bypass, Area 12

Repave is a hot in-situ recycling process for rejuvenating and resurfacing existing surface courses on carriageways and airfields. It minimises the need to remove existing material to go to landfill. Our Repave process is the only in-situ surface course recycling process that is currently available in the UK. It has been established in the industry for more than 30 years and has become a recognised solution for surface course recycling for carriageways and airfields.



Application Details

The A64 is a busy dual carriageway and its surface had been worn out badly over the years, resulting in resurfacing works being urgently needed. A cost valuation by the HA made clear that they would not be able to fund all of the 33,000m² of surfacing to be replaced. At this time Colas offered its environmentally friendly recycling process Repave and they were able to show a significant reduction in cost. This is due to the fact that the import of new and expensive hot asphalt is halved and existing

surfacing material is recycled. Another contributing factor to the cost savings was the reduction of the construction period by 20% with Repave being a quicker process compared to conventional surfacing. Once the road closure was set up at around 8.30pm the Repave operation began with planing off 25mm of existing material followed by the Repave process and the thin overlay.

Client: A-one+ on behalf of HA Area 12

Date: March - April 2011

Area: 32,624m²

Duration: 8 days

Location: A64 Malton

The quick Repave process allowed up to 6,000m² to be resurfaced in one night finishing at 5am in the morning to allow for white lining to be applied before opening the road to traffic again. The project was completed two days earlier than the anticipated 10 days and a staggering cost saving of 37% had finally been achieved. Furthermore, some significant environmental savings were achieved at the same time, which made the projects an overall great success.



Achieved Savings

32,696m²

total saved area Westbound & Eastbound using Repave

	Unit	Conventional	Repave	Savings	
Planings off site	<i>Ton</i>	3099	1549	1549	50%
Material to site	<i>Ton</i>	3507	1712	1794	51%
Lorry Movements	<i>No</i>	331	164	167	51%
Duration	<i>Nights</i>	10	8	2	10%
CO ₂ Emissions	<i>Ton</i>	275.2	173.7	101.5	37%
Energy	<i>GJ</i>	4226.7	2589.1	1637.6	39%
Cost	<i>£££</i>	£ 705,562	£ 440,992	£ 264,570	37%

Colas Limited, Wallage Lane
Rowfant, Crawley
West Sussex RH10 4NF
T: 01342 711000
F: 01342 711199
E: info@colas.co.uk