

Repave is a hot in-situ road recycling process



Repave, A1, Bloody Oaks

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

Following the successful tender against conventional resurfacing, the works were carried out in 15 night shifts planing out 25mm of both lanes on the A1 at Bloody Oaks (northbound). 50,700m² of wearing course was renewed using not only Colas' unique hot in-situ recycling process but also their HAPAS approved thin surfacing material 10mm Colrug. Colas provided a "one-stop-shop" with all aspects of the contract including traffic management, planing, Repaving

and supplying and laying of the surface course. The works were carried out under a full closure, which was set up at 10pm and reopened again by 5.30am. We experienced no overrun of these time restrictions despite working under adverse weather conditions on some nights with snow fall and temperatures falling as low as minus 3°C.

Client: MAC Area 7; HA

Date: February 2010

Area: 50,700m²

Duration: 15 days

Location: A1 Bloody Oaks



Total energy consumption and greenhouse gas emissions

Total energy consumption, GJ

Structure	Binder	Aggregates	Upstream Transport	Manufacture	Downstream Transport	Laying	Repave Machine	Total
Conventional	2,326.6	378.8	4,913.8	2,147.4	969.4	413.2		11,149.1
Repave	920.5	182.1	2,511.0	1,056.1	481.4	362.5	954.7	6468.2

42% total energy saved using Repave

GHG emission in equivalent CO₂, tonnes

Structure	Binder	Aggregates	Upstream Transport	Manufacture	Downstream Transport	Laying	Repave Machine	Total
Conventional	143.0	13.9	361.6	132.5	71.3	31.8		754.1
Repave	56.7	6.7	184.8	65.7	35.4	27.9	71.5	448.6

40.5% total saved using Repave

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