

Repave is a hot in-situ road recycling process



Repave, A1 Dry Doddington SB (Area 7)

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

Colas Ltd carried out more than 10,000m² of surface course replacement using its unique Repave operation recycling the existing but worn-out surface course. The works took place in late February and were completed in just three days laying more than 650 tonnes of Masterphalt despite a tight road closure window.

The first cone on the closure was not on until 10pm and all traffic restrictions had to be removed by 5.30am. That meant that there was only approximately 4.5 working hours available to plane

out 25mm of the existing surface, repave 25mm of the surface below and replace 25mm of Masterphalt surface course. Before opening the carriageway white lining had to be applied in order to hand over a perfectly safe carriageway to the road users.

Client: MAC Area 7; HA

Date: February - March 2010

Area: 10,085m²

Duration: 3 days

Location: A1 Dry Doddington SB



Total energy consumption and greenhouse gas emissions

Total energy consumption, GJ

Structure	Binder	Aggregates	Upstream Transport	Manufacture	Downstream Transport	Laying	Repave Machine	Total
Conventional	462.8	75.3	217.8	427.1	164.2	82.2		1,429.5
Repave	219.7	37.7	108.9	213.6	81.4	72.1	169.5	902.9

36.8% total energy saved using Repave

GHG emission in equivalent CO₂, tonnes

Structure	Binder	Aggregates	Upstream Transport	Manufacture	Downstream Transport	Laying	Repave Machine	Total
Conventional	28.4	2.8	16.0	26.4	12.1	6.3		92.0
Repave	13.5	1.4	8.0	13.2	6.0	5.5	12.7	60.3

34.5% total saved using Repave

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