

Repave is a hot in-situ road recycling process



Repave, A30 Whiddon Down

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 A30 is a busy trunk road dual carriageway between Exeter and Okehampton in Devon. It was decided that the southbound carriageway needed to be renewed due to the surface being worn and fretted. The works were carried out at night under road closure with diversions to minimise disruption. 25mm of the existing HRA was planed out at the start of the night shift, the

Repave machine then hot recycled 25mm of the existing material and 25mm of Thinpave was laid on top of the recycled layer immediately afterwards. Lining and studs followed, prior to reopening of the carriageway. The works were completed in 7 nights to programme.

Client: MAC Area 1; HA. Enterprise-Mouchel

Date: October 2008

Area: 29,115m²

Duration: 7 days

Location: A30 Whiddon Down near Okehampton



Total energy consumption and greenhouse gas emissions

Total energy consumption, MJ/m²

Structure	Binder	Aggregates	Manufacture	Transport	Laying	Repave Machine	Total	Saving
45mm Thinpave	27.6	5.8	26.4	30.7	6.2		96.6	
Repave + 25mm Thinpave	15.6	3.4	15.6	17.9	4.1	16.4	73.0	24% 687,114MJ

24% total energy saved using Repave

GHG emission in equivalent CO₂, kg/m²

Structure	Binder	Aggregates	Manufacture	Transport	Laying	Repave Machine	Total	Saving
45mm Thinpave	1.62	0.21	2.03	2.45	0.47		6.78	
Repave + 25mm Thinpave	0.92	0.12	1.20	1.43	0.20	0.98	4.85	28% 56.2 tonnes

56.2 tonnes total saved using Repave

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