

Retread is a cold in-situ road recycling process



## Retread Carriageway, Huddersfield

Retread is a cold in-situ road recycling process. We have been operating this process for over 40 years for both carriageways and footways and have highly experienced teams working across the UK using specifically adapted plant and equipment. The process is versatile in its application and the benefits of it being an in-situ process means access and movements to and from the site are significantly reduced.



### Application Details

The carriageway contract was acquired and completed by Colas in April 2009. Colas were awarded the contract due to our approach. For each site we evaluate its suitability and can often complete the Retread process even in hard to reach areas. Our crews were able to complete the sites, overcoming any logistical challenges presented. Colas' ability to complete these sites was the result of the vast experience provided by both the workforce and management operating within the division.

As a result of overwhelming success of the initial sites, Kirklees council increased the Retread program to include additional carriageways. The council representatives were delighted with the quality and professionalism demonstrated by the workforce throughout the contract and expressed their willingness to continue the successful working relationships established during the program.

Client: Kirklees Council

Date: April 2009

Area: 45,366m<sup>2</sup>

Duration: 36 days

Location: Huddersfield



## Total energy consumption and greenhouse gas emissions

### Total energy consumption, MJ/m<sup>2</sup>

Structure	Binder	Aggregates	Manufacture	Transport	Laying	Retread Equipment	Total	Saving
Conventional	40.0	10.0	45.0	19.4	7.9		122.3	
Retread	25.0	2.2		1.8	3.8	16.4	49.3	59.7% 3,311,791 MJ

**59.7%** total energy saved using Retread

### GHG emission in equivalent CO<sub>2</sub>, kg/m<sup>2</sup>

Structure	Binder	Aggregates	Manufacture	Transport	Laying	Retread Equipment	Total	Saving
Conventional	2.35	0.36	3.46	1.55	0.28		8.00	
Retread	1.35	0.08		0.15	0.3	1.23	3.11	61.1% 221,845 kg

**221,845 kg** total saved using Retread

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