



Retread is a cold in-situ road recycling process

Retread Carriageway, Stoke-on-Trent

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

Following the successful tender for the surface treatment contract in Stoke-on-Trent, Colas carried out 10,290m² of Retread on residential carriageways. Stoke had not done Retread in the past but was convinced about the benefits that the process would offer. Despite the sites being in housing estates there were no complaints from the public noted - which is always a major issue for any council. The professionalism of the crew, as much as the quick construction time, certainly contributed to this

successful scheme and it is believed that Stoke will carry out further schemes over the following years. Stoke-on-Trent has certainly noted the environmental benefits gained from using this process and has been delighted having received the environmental calculation (see overleaf) which shows impressive saving figures.

Client: Stoke City Council

Date: September 2009

Area: 10,290m²

Duration: 10 days

Location: Stoke-on-Trent



Total energy consumption and greenhouse gas emissions

Total energy consumption, GJ

Structure	Binder	Aggregates	Upstream Transport	Manufacture	Downstream Transport	Laying	Retread Equipment	Total	Saving
Conventional	417.6	102.5	309.4	604.7	17.7	83.9		1,536	
Retread	215.8	15.0	1.6	29.4	54.2	40.0	207.9	564	972 GJ or 94.5 MJ / m ²

63.3% total energy saved using Retread

GHG emission in equivalent CO₂, tonnes

Structure	Binder	Aggregates	Upstream Transport	Manufacture	Downstream Transport	Laying	Retread Equipment	Total	Saving
Conventional	24.6	3.7	22.8	39.1	1.3	6.5		97.9	
Retread	12.6	0.5	0.1	0.7	4.0	3.1	15.6	36.7	61.2 tonne or 5.9 kg/m ²

62.5% total saved using Retread

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