



Retread is a cold in-situ road recycling process

Retread Footway, 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 completion of the carriageway scheme in Stoke the council decided to carry out a trial on footway Retread on two sites. The city was very impressed with the benefits that this process offers in terms of reduced construction time, accessibility of driveways during the works and, last but not least, the outstanding environmental benefits Retread offers. The council had all faith in Colas since their previous carriageway scheme had been

successfully completed without any complaints from the public and in October and November 2009 Colas, on behalf of Stoke-on-Trent City Council, carried out 10,713m² of footway reconstruction using the Retread process. Stoke-on-Trent was so impressed with the works carried out and the quality that it is likely further schemes will come up in the future.

Client: Stoke City Council

Date: October - November 2009

Area: 10,713 m²

Duration: 14 days

Location: Stoke-on-Trent



Before



After

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	100.4	22.2	67.3	131.5	4.6	26.3		352.3	
Retread	73.2	9.6	25.3	53.1	16.5	22.5	36.6	236.8	115.5 GJ or 51.7 MJ / m ²

67.2% 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	5.9	0.8	5.0	8.5	0.3	2.0		22.5	
Retread	4.3	0.3	1.9	3.3	1.2	1.7	2.7	15.4	7.1 tonne or 3.2 kg / m ²

68.4% total CO₂ saved using Retread

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