



Retread is a cold in-situ road recycling process

Retread Footway, North London

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

In September 2007 Colas Ltd completed a contract of footway Retread for Amey in London on behalf of Transport for London (TfL). Both Amey and TfL want to satisfy the growing requirement of sustainable solutions within their 6 year partnership to improve London roads and footpaths. For this reason Amey specifically chose Colas' Retread process. The contract involved the improvement of a footpath along a very busy dual carriageway. To carry out the works, the slow lane had to be closed during off-peak hours. Originally, it was

anticipated that the works would last approximately two weeks. With Colas' in-situ process Amey was able to reduce carbon emissions and cut the project period by a half. This achievement is hugely recognised by TfL as traffic disruption is the main concern. Due to the success of this trial contract, Amey and TfL have underlined their willingness to carry out further Retread projects with Colas within North London.

Client: Amey on behalf of TfL

Date: September 2007

Area: 2,000 m²

Duration: 1 week

Location: A1400 Woodford, North London



Before



After

Total energy consumption and greenhouse gas emissions

Total energy consumption, MJ/m²

Structure	Binder	Aggregates	Manufacture	Transport	Laying	Retread Equipment	Total	Saving
75 mm DBM	40.7	9.6	48.0	25.5	9.5		133.2	
Retread +20 mm DBM	31.0	3.2	13.0	10.1	6.7	16.4	80.5	39.6 % 52.7 MJ/m ²

39.6% total energy saved using Retread

GHG emission in equivalent CO₂, kg/m²

Structure	Binder	Aggregates	Manufacture	Transport	Laying	Retread Equipment	Total	Saving
75 mm DBM	2.39	0.35	3.69	1.07	0.73		8.23	
Retread + 20 mm DBM	1.74	0.12	1.00	0.36	0.43	1.23	4.87	40.8 % 6720 kg

6720 kg total saved using Retread

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