

Retread is a cold in-situ road recycling process



Retread Carriageway, Winchester

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 access road into the army base had suffered from severe winter weather and deep potholes had made the road unsafe for any traffic. Colas were awarded the contract to refurbish the carriageway using our road recycling Retread process; a Microasphalt overlay was also applied. The road could not be closed for traffic so Retread provided the optimum solution as road users can pass at all times.

With our full service capability we were also able to complete patching repairs and road markings. Two days were allowed for the Retread process, followed by a further two days for the Microasphalt laying.

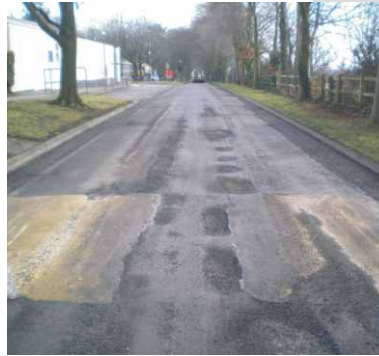
Client: MoD

Date: February 2010

Area: 3,000m²

Duration: 2 days

Location: Worthy Down, Winchester



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	114.2	28.0	9.0	165.4	17.6	22.9		357.1	
Retread	59.2	4.7	0.4	8.1	13.9	10.9	46.1	143.2	213.9GJ or 76.0 MJ/m ²

59.9% 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	6.7	1.0	0.7	10.7	1.3	1.8		22.2	
Retread	3.5	0.2	0.0	0.2	1.0	0.8	3.5	9.2	13.0 ton or 4.6kg/m ²

58.6% total saved using Retread

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