



**MILES
MACADAM**

CONSTRUCTION & SURFACING

EASTERN AVENUE, SPEKE

MILEPAVE™

Liverpool City Council declared a Climate Emergency in 2019, committing to make Liverpool a Net Zero Carbon City by 2030. In using Miles Macadam as a carbon neutral organisation, no Indirect Emissions are attributable to the Authority, supporting this objective.

Milepave™ has been used for the resurfacing of Eastern Avenue in Speke and is a reduced carbon surfacing process using less resources, lower mixing temperatures, lower energy resources and a lower bitumen content than conventional asphalt surfacing materials. The proposed scheme would involve the removal of existing failed asphalt surfacing, pre-treatment of the concrete that resides below and the resurfacing of the site with Milepave™ Asphalt Grouted Macadam. The grouting process associated with Milepave™ produces a flexible, fully sealed surface that coupled with the pre & post jointing treatment resists the thermal expansion & contraction of the concrete below. The result is a surface course which significantly outperforms conventional asphalt surfacing materials on concrete carriageways, leading to better whole life cost and lower carbon cost.

Delivered Programme of Work:

- 🔴 9,292m² of concrete carriageway resurfacing
- 🔴 744 tonnes of 40mm Milepave™ on concrete system
- 🔴 34.24 tCO₂e surface course material emissions

Environmental Savings:

- 🔴 Savings of 110.7 tonnes in aggregates and 14 tonnes in straight run bitumen over conventional materials
- 🔴 26 tCO₂e saving over a conventional hot mix material and a non-carbon neutral surfacing contractor (the equivalent of 78,000 car miles)
- 🔴 Increased performance and subsequent lower whole life carbon costs

Financial Saving:

- 🔴 Designed system to last longer, address specific issues and ensure lower whole life cost

Miles Macadam and Milepave™ offer significant benefits over conventional approaches and through our direct emission reduction, carbon neutral certification and carbon reduction strategy, are helping Local Authorities facilitate their commitment to climate change.