

Carbon Offset M25, London

343 Tonnes of IKO Permatrack Repairs the London Orbital Motorway

Project Description

Connect Plus (client) required a long term solution for their road repair project as the aforementioned road surface was already failing.

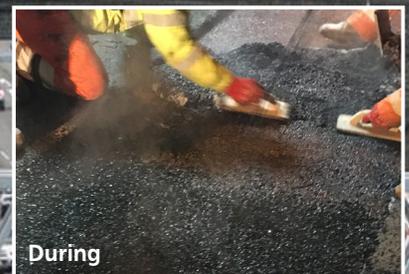
The repairs covered some of the most critical parts of the Motorway (M25) including elevated structures such as the section linking the M25 to the M1. A Mastic Asphalt solution (Namely the IKO Permatrack System) was chosen due to its CarbonZero (environmental credentials), durability, speed of installation and long-term life-span.

All IKO Permatrack Road Surfacing Repair Systems are a technically advanced, polymer modified asphalt, comprising of a flexible waterproofing layer and a high modulus surface course, covered by a BBA HAPAS certificate 02/H072. This made it the ideal solution to repairing the badly rutted and potholing carriageway surfacing of the M25.

IKO Permatrack installation was carried out by Techjoint Ltd to an excellent standard and the project was completed successfully on time and to the client's (Connect Plus) satisfaction with IKO Permatrack now a regularly chosen system for other emergency road surfacing repairs.

Mohammed Jaja, Construction Manager for Connect Plus stated 'We previously specified IKO Permatrack materials and found them to be the perfect solution for inlaid crack repair for numerous bridge joints and crack repairs, so it was the obvious 'go-to' system. The fact that all the carbon produced, from manufacture to installation, can be offset is not just great from an environmental point of view, but it is ethically the right thing to do'.

The net carbon footprint of this project is entirely offset using internationally approved carbon credits, which means for every tonne of Mastic Asphalt made, we are helping to fund environmental and humanitarian causes.



Impact Calculator: 342.90 Tonnes Mastic Asphalt = 53.69 Tonnes of CO₂ Offset

Impact Sector	Impact	Quantitative Data	
		Kenyan Stove	Ugandan Borehole (1)
Environment	CO ₂ e prevented through the projects	26.85 tonnes	26.85 tonnes
	Wood Saved	21.63 tonnes	18.97 tonnes
Social	Number of Stoves	8	n/a
	Total People Impacted	45	13
Economic	Working Time Saved	557 hours	n/a
	Working Days Equivalent	70 days	n/a
Health (likely reduced cases from project support)	Respiratory Illness (Lower Chest / Lung)	6	n/a
	Asthma	6	n/a
	Ear, Nose and Throat Irritation	2	n/a
	Total Reduced Instances of Serious Illness Attributed to Indoor Smoke	14	n/a
	Clean Water Supplied	n/a	33,524 litres

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History Behind the Location

The M25 or London Orbital Motorway is a 117-mile (188 km) motorway that encircles almost all of Greater London. It is a motorway of major significance with approximately 200,000 cars passing through daily. The road itself consists of more than two million tons of concrete and 3.5million tons of asphalt, which needs to be maintained and refurbished at regular intervals in order to keep the mass of traffic flowing and avoid the frustration of congestion.

Carbon Zero: <http://www.co2balance.com/>

The data from the Impacts are based on the field work carried out by CO2balance within the project locations in Kenya. The data that is gathered is in line with the requirements of the Gold Standard as part of the annual Monitoring. These Monitoring Reports are available on request. Data is then cross comparable against national averages in Kenya to ensure accuracy. Assumptions and extrapolations

have been used where relevant. The Health Data is derived from the following sources R. Perez-Padilla et al, 2010. 'Respiratory health effects of indoor air pollution' in International Journal of Tuberculosis and Lung Disease, vol. 14 no. 9, pp1079-1086. Kenya National Bureau of Statistics. (2008). Kenya Integrated Household Budget Survey. Ministry of Planning and National

Development, p1-300. 3 Wood saved and clean water supply - Calculations based on field measurements conducted by staff contracted to CO2balance and are conducted according to the requirements defined by the Gold Standard. Monitoring data is available on the Gold standard registry.

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